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Lobed Mixer Design for Noise Suppression

Plume, Aerodynamic and Acoustic Data

Vinod G. Mengle, V. David Baker, and William N. Dalton
Rolls Royce Allison, Indianapolis, Indiana

July 2002

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Preface

The final report is written in two volumes. In the first volume we present the design philosophy of the new lobe mixers tested, and then analyze the results of various acoustic and aerodynamic tests done at NASA Lewis Research Center, Cleveland, Ohio and Aero Systems Engineering FluiDyne Laboratories, St. Paul, Minnesota over a period of three years (1995-1997). The second volume is a compilation of data from the plume survey and the aerodynamic data for the acoustic tests.

Table of Contents

Guide to Plume Survey Data as plotted in Vol. 2 (parts 1, 2) and FluiDyne Tests[#]

MIXER	T.O. # 1										T.O. # 2									
	Velocity				Total Temperature						Velocity					Total temperature				
	x/D=0.2	1	>1.0	C.L.**	0.1	0.2	0.5	1	>1.0	C.L.**	0.2	0.5	1	>1.0	C.L.**	0.2	0.5	1	>1.0	C.L.**
CONF					FD(M=0)* 8 (M=0.1) 27(M=0.1) 29(M=0.1)		28(M=0.1)		30(M=0.1) 31(M=0.1)	45(M=0.1)										
12CL 100%L	12 13	20		1	FD(M=0)* 9(M=0.1) 32(M=0.1)		33(M=0.1) 36	34(M=0.1)	35(M=0.1)	61 12* 45(M=0.1)	15 33	34	24 35	36 37 38 39	2, 5 17*					
12CL 50%L				1						61 12*	14									
12UH					FD(M=0)* 10(M=0.1) 37(M=0.1)		38(M=0.1)	39(M=0.1)	40(M=0.1)	45(M=0.1)										
12TH	18			1 3 (M=0)						61 12*						65 14*,23*				
16UH					FD(M=0)* 41(M=0.1) 11(M=0.1)		42(M=0.1)	43(M=0.1)	44(M=0.1)	45(M=0.1)										
20UH				1		25*				61 12*										
20DH	9 10	19	60 (Jet Wake)	1		63 24*				61 12*	11 26	27	25 28	29 30 31 32	2. 4 17*	64, 66	67	68	69 70 71 72	62 13*

Notes: [#] Plume survey figure numbers are for free-jet Mach no. (M) of 0.2 unless mentioned; Light References = Figure nos. in Part 1, Vol. 2;
Bold references = Figure nos. in Part 2, Vol. 2 FD = 1995 FluiDyne surveys: All Temperature surveys are at nozzle-exit plane;
FluiDyne tests also have total pressure survey plots at the mixer exit plane for the same conditions as the corresponding total temperature surveys
* = Non-dimensional ** C.L. = Center-Line Traverse

Guide to Plume Survey Data as plotted in Vol. 2 (parts 1, 2) and FluiDyne Tests

MIXER	T.O. # 3 Velocity 0.2	0.5	1	>1.0	C.L.**	T.O. # 3 Total Temperature 0.2	0.5	C.L.**	Cruise Total Temperature Nozzle-Exit
CONF									FD(M=0)*
12CL 100%L	17		23		2, 8	1	5	15*	FD(M=0)*
	16		22		18*	19*			
	40	41	42	43					
				44					
				45					
				46					
12CL 50%L	47	48	49	50	2, 7	2	6	15*	
				51		20*			
				52					
				53					
12UH									FD(M=0)*
12TH						3	4	15*	
						21*			
16UH									FD(M=0)*
20UH									
20DH			21		2, 6		7	15*	
		54	55	56	18*		22*		
				57					
				58					
				59					

Part 1

Plume Survey Data

Von D. Baker

SUMMARY

During December 1996 and 1997, exhaust plume survey measurements were taken on several scale models of Rolls-Royce Allison exhaust acoustic mixer designs with the objective of reducing the take-off and approach noise signature of advanced civil turbofan engines. The plume data was plotted and analyzed for Rolls-Royce Allison by Allison Advanced Development Company (AADC) from the NASA data files transmitted to Rolls-Royce Allison.

These tests were conducted at the NASA-LeRC as part of the AST program under contract NAS3 27394, Task Order 6. The purpose of this report is to present the plume data analysis of immediate interest to Rolls-Royce Allison Acoustic Design Group. Additional plume data analysis is also provided in Part 2. Data plots and pertinent comments are presented in the following order:

1. Plume Velocity Data Plots
   - 1.1 Maximum "centerline" velocity decay
   - 1.2 Selected velocity profiles at x/D=0.2
   - 1.3 Selected velocity profiles at x/D=1.0
   - 1.4 Selected velocity profiles at all x/D values from 0.2 to 10.0
   - 1.5 Typical "Jet Wake Diagram"
2. Plume Total Temperature Data Plots
   - 2.1 Maximum "centerline" Tt decay
   - 2.2 Selected Tt profiles at x/D=0.2
   - 2.3 Selected Tt profiles at all x/D values from 0.2 to 10.0
3. Conclusions

1.0 Plume Velocity Data Plots

Selected plume velocity data plots are presented as shown in Figures 1 to 59. The plume velocity was calculated by NASA from the measured total pressure (Pt), static pressure (Ps) and total temperature (Tt) values at each measurement step taken in the plume. From isentropic flow equations, the sonic velocity and local Mach number at each step was calculated and then converted to the local plume axial velocity in ft/sec.

A simplified sketch of the NASA traversing rake assembly and measurement axis definition is shown in Figure A. The rectangular array traversing rake assembly consisted of one vertically aligned set of Pt rakes, one vertically aligned set of Tt rakes, and two vertically aligned sets of Ps taps, all aligned in the "Z" direction. In operation, the array was positioned at different axial distances from the nozzle exit plane, or x/D values, and then traversed across the plume using a motorized drive. The "x" value is the axial distance in inches and "D" is the nozzle exit diameter of 7.250 inches nominally.

The x/D values varied from a minimum of 0.2 to a maximum of 10.0. A full survey consisted of x/D values of 0.2, 0.5, 1.0, 3.0, 5.0, 7.5, & 10.0. At each x/D location either a "full" traverse or partial traverse of the "center" region (or lateral sweep) by the rectangular array across the plume was made in 1/4" steps in the "Y" direction. The data was acquired in an over-lapping manner such that a corresponding measured Pt, Tt, and Ps value was obtained for each data point location in the Y-Z measurement plane.

A "full" survey typically swept from left to right a "Y" distance of -4.75 inches to +4.75 inches from the center of the array. In order

to conserve testing time, a "center" traverse was also used for several x/D values that would typically vary from -0.75 inches to +0.75 inches. The vertical or "Z" sweep was constant at -5.00 inches to +5.00 inches, with 1/4 inch spacing between adjacent probes, in all cases being defined by the spacing built into the array.

The respective fan and core nozzle pressure ratios (NPR) and total temperature ratios tested were selected to simulate different take-off thrust settings of an advanced turbofan engine for two typical aircraft installation cycles, referred to as the "F" and "G" cycles, and a growth engine cycle, referred to as the "H" cycle. The test conditions are summarized in Table I. To simplify the discussion, the test conditions are hereafter referred to by the core NPR value.

A free stream take-off Mach number of 0.2 was simulated by placing the test mixers inside a large circular pipe which discharged ambient air over the mixers to simulate forward flight effects.

The 1996-97 NASA plume tests included the five mixers listed in Table II. Due to testing problems, it was not possible to test all mixers over the same range of test conditions. Also, all mixers were tested with a common baseline exhaust nozzle with a reference or "100%" mixing length. The 12 lobe baseline mixer (12CL) was also tested with a shortened "50%" length nozzle of reduced mixing length.

1.1 Maximum "centerline" velocity decay

Figures 1 through 8 were plotted from the data files for selected mixer configurations. These plots show the decay of the maximum profile velocity at each x/D value tested, normally from x/D of 0.2 to 10.

The maximum velocity was obtained by visually scanning the velocity data file for each x/D value data set. In most cases, as expected, the maximum velocity was found to be at the center of the array which was intended to coincide with the nozzle centerline location. In some cases, the maximum velocity was found to be located at a slightly off-center location in the array. This off-setting of the profile may be due to a shift in the alignment of the instrumentation array relative to the nozzle centerline, when the nozzle is flowing.

Figure 1 compares the maximum velocity decay for each mixer at the 1.39 core NPR condition. In general, all of the mixers exhibit a constant maximum velocity core length of about 1 diameter, except the 12 lobe baseline mixer (12CL) with 50% nozzle length. Beyond this length the core begins to decay at a somewhat linear rate when plotted on the logarithmic abscissa scale. The 20 lobe deep mixer (20DH) exhibits lower velocities than the other mixers; however, surprisingly, the 20 lobe unscalloped mixer (20UH) which was only tested up to x/D of 1.0 shows the lowest velocities.

Figure 2 shows the effect of the 1.54 and 1.74 core NPR schedule for the 12 lobe baseline mixer (12CL) and 20 lobe deep scalloped mixer (20DH). Trends similar to the data in Fig. 1 are noted; however, the velocity levels are increased which reflect the higher NPR schedules. Again, the 20 lobe deep scalloped mixer (20DH) exhibits the lowest velocities. Note that in both Figures 1 and 2, the plume velocity tends to converge to the same value for all mixers, at a given NPR schedule, at x/D of about 10. This suggests that the benefit of the mixer geometry in affecting the velocity decay diminishes beyond x/D of 10 and is

primarily controlled by approaching the ideal mixed velocity (conservation of mass, energy, and momentum) which is a function of the bypass ratio (BPR) and total temperature ratio of the fan and core stream.

Figures 3 through 8 show additional maximum "centerline" velocity plots at other selected conditions with trends similar to those noted above.

1.2 Selected velocity profiles at x/D=0.2

Figures 9 through 18 show typical velocity traverses at x/D=0.2 which was the nearest measurement x value to the nozzle exit plane. The vertical height , Z, plotted on the abscissa scale represents the probe locations, typically in 1/4 inch spacings, above and below the nozzle centerline. Thus, the true orientation of the velocity profile can be obtained by turning the plot 90 degrees such that the velocity scale is along the horizontal (centerline) direction.

Note that the nozzle exit diameter is 7.250 inches for all plots. Thus the location of the nozzle exit relative to the "Z" scale can be noted at a value of + and - 3.625 inches (the nozzle radius). Velocities outside the nozzle radius are thus indicative of the free stream flow conditions and boundary layer on the external diameter of the nozzle.

The plotted "Y" values represent the traverse location, in inches, of the rakes. Figure 9 shows a typical "center" survey with Y values from -0.75 inches to +0.75 inches on either side of the center meridian plane. Thus a Y value of 0.0 represents the plane containing the nozzle centerline. Figure 10 is the same condition as Figure 9 but shows a typical "full" survey in the Y direction with Y values from -4.75 to +4.75; however, for clarity some of the in between Y values were deleted. Figure 11 shows a "full" survey with the maximum number of Y values that can be plotted by Excel, in this case, from Y =-4.75 to Y=3.75 (values from 3.75 to 4.75 were deleted due to plotting restrictions).

One way to understand the velocity profiles is to visualize a knife making parallel slices through a round cake. Thus near the edge of the cake (i.e., Y= +/- 3.5 inches) the "slices" are more narrow, parabolic shaped whereas a slice at the center diameter of the cake (Y=0) defines the maximum width of the cake. i.e., the plume.

It should be noted that since the data were taken in a rectangular array, as selected by NASA, a rectangular array or "slices" was therefore the most cost-effective way to plot the plume data. Some surface plots are also included.

The Y traverses at x/D of 0.2 show a relatively complex but basically symmetrical velocity profile about the nozzle centerline. Some general observations can be made by comparing the profiles in the following figures as shown in Table III

Referring to Figure 10, a relatively "flat" velocity profile is noted for the 20 lobe deep mixer (20DH) at around 800 ft/s, with a maximum velocity "peak" to just under 1000 ft/s occurring at the centerline. A more complex velocity profile is observed for the 12 lobe baseline mixer (12CL) in Figure 12, with a center "peak" and two basically symmetrical outer "peaks" with velocities from about 950 ft/s, dropping to a "trough" of around 750 ft/s and then increasing to the maximum centerline velocity of just over 1000 ft/s. A similar trend is noted in Figure 13 for the baseline mixer with 50% length nozzle except the corresponding peaks are about 50 ft/s higher suggesting less mixing with the shorter length nozzle. The tongue

mixer, Figure 18, exhibits a velocity profile characteristic between the 20 lobe deep mixer (20DH) and the 12 lobe mixer with less peaking observed on the outer two peaks, but about the same centerline velocity of just over 1000 ft/s.

The other plots in this section are for different NPR operating conditions and, in general reflect the same trends as noted above with the velocity levels increasing with increasing NPR values and conversely.

1.3 Selected velocity profiles at x/D=1.0

Figures 19 through 25 show the changes in the velocity profile at x/D=1.0. The main change in the profile, for a given NPR schedule, appears to be more mixing at the outer edge reflected by the tapering inwards of the outer profile towards the center with some small reduction in peak velocities compared to the profile at x/D of 0.2. Figure 20 shows this tapering in of the outer profile for the 12 lobe mixer (12CL) at 1.39 NPR)core, with a corresponding peak centerline velocity of about 1050 ft/s. Increasing the NPR)core value to 1.74 (Figure 23) resulted in peak centerline velocities approaching 1400 ft/s for the 12 lobe baseline mixer (12CL), dropping to around 1250 ft/s maximum for 1.54 NPR)core (Figure 24).

1.4 Selected velocity profiles at all x/D values from 0.2 to 10.0

Figures 26 through 59 show typical examples of the transformation of the velocity profile from x/D of 0.2 to x/D of 10.0 for several NPR operating conditions and mixers. In general, the profile decay is somewhat similar in each case in terms of profile shape transformation. The discreet effects of the mixer geometry on the plume velocity profiles can usually be discerned at x/D values from 0.2 up to around 3.0 to 5.0. Beyond this x/D distance, the profiles show more similarity with less individualized profiles due to the mixer geometry.

Figures 41 through 46 show the profiles for the 12 lobe baseline mixer (12CL) as an example which show the coalescence of the three distinct velocity peaks at x/D of 0.5 (Figure 41), to the leveling off of the outer peaks at x/D=3.0 (Figure 43), to the "parabolizing" of the contour to one center peak at x/D=5.0 (Figure 44), and a gradual decreasing of the parabolic-shaped profile to a lower velocity level (Figure 46) at x/D=10.0. This general trend in the plume profile transformation occurred for all mixers with velocity levels changing with NPR levels as noted previously.

The symmetry of the velocity measurements, from the upper half to the lower half of the profile, generally show good agreement; i.e., the profile is observed to be basically "mirrored" within measurement accuracy from top to bottom. There are some exceptions to this, as, for example, shown in Figures 43 and 44. These figures show some "blips" in the velocity profile at Z=3.0 to 3.25 that is not the same "mirrored" shape as noted at Z=-3.0 to -3.25. It is noted that these blips occur at all Y values, at the same Z values of approximately 3 to 3.5, and this pattern also repeats at other x/D values and mixer types.

1.5 Typical "Jet Wake Diagram"

It is possible to use the velocity contour plots at each x/D value to construct what is referred to as a "jet wake diagram" for each mixer. Jet wake (or plume) diagrams are commonly included in the Military Specifications requirements for turbojet and turbofan engine model specifications to depict the extent of the engine exhaust

velocity and temperature decay at SLS maximum thrust operation, or other specified conditions.

The jet wake diagram shows lines of constant velocity (or temperature) decay as a function of the non-dimensional horizontal distance x/D, and vertical distance z/D (the same as r/D). Since the horizontal and vertical distance is non-dimensionalized to the same reference dimension, nozzle diameter, it is thus possible to "visualize" in proportion the plume velocity spreading rate and outer boundary when plotted in this manner.

Figure 60 shows a typical example of a velocity jet wake diagram for the 20 lobe deep mixer (20DH). This diagram was constructed using the velocity contour plots at each x/D value by determining the z values corresponding to the values of 200, 400, 600 ft/sec, etc. The z values were then non-dimensionalized to z/D for plotting vs. x/D. Curves drawn through each corresponding constant velocity point yields the final jet wake diagram. Similar diagrams could be constructed for other mixers or operating conditions if desired.

2.0 Plume Total Temperature Data Plots

The total temperature rake array, as shown in Figure A, was used to measure the Tt values in the exhaust plume, in degrees R, and was traversed across the plume as discussed previously in Section 1.0.

2.1 Maximum "Centerline" Tt Decay

Examples of maximum "centerline" total temperature plots are shown in Figures 61 and 62. These plots were generated in the same manner as the maximum velocity plots discussed earlier except the total temperature data files were scanned for a maximum value, which, again, occurs at or near the nozzle centerline.

Referring to Figure 61 for 1.39 NPR)core and 2.34 Tt)core/Tt)fan, the maximum Tt plots tend to exhibit the same characteristics as the maximum velocity plots, namely: an approximately linear decay (on logarithmic scale) at x/D values beyond 1.0; a merging of the plots at x/D approaching 10.0, and approximately 150 deg lower Tt, or advantage, for the 20 lobe deep mixer (20DH) compared to the 12 lobe baseline mixer (12CL) at x/D of 1.0.

This lower temperature advantage significantly diminishes at x/D of 10.0 where the data for all mixers tend to merge to the same Tt value which again illustrates the global effect of the ideal mixed temperature being a function of BPR and Tt)core/Tt)fan (conservation of energy) rather than mixer type. As can been seen, however, the 20 lobe deep mixer (20DH) does enhance the mixing, by reducing maximum temperatures at a given x/D, in the very near field from the nozzle exit up to about x/D of 5.0 where the global effects begin to predominate and determine the "fully mixed" temperature decay.

Figure 62 shows the Maximum Tt decay for the 20 lobe deep mixer (20DH) at the higher 1.61 NPR condition. The trends, compared to the 20L data in Figure 61, are basically the same except the very near field Tt levels in Figure 62 are about 100 degrees R hotter reflecting the increased Tt) core temperature and other flow condition differences.

2.2 Selected Tt profiles at x/D=0.2

Figures 63 through 65 show typical total temperature "slices" through the plume at x/D=0.2 for the 20 lobe deep mixer (20DH) and internal tongue mixer (12TH). Referring

to Figure 63 for the 20 lobe deep mixer (20DH) at the 1.39 NPR)core condition, the Tt plots are characterized by a fairly significant evidence of mixing for "Z" heights greater than 1.0 inches. For "Z" values less than 1.0 inch the profile begins to peak with a very rapid temperature spike developing at the centerline (Z=0) indicating significantly reduced mixing within this zone.

Although the temperature spikes at the centerline are significant, the area within a 1 inch radius is less than 8 % of the nozzle exit geometric area, or conversely, 92% of the exit area has a significantly reduced, partially mixed, temperature.

Figure 64 shows a similar temperature profile for the 20 lobe deep mixer (20DH) at the 1.54 NPR)core condition. The centerline maximum Tt is approximately 150 R deg. hotter reflecting the increased thrust setting condition. Figure 65 shows the same condition for the internal tongue mixer (12TH). Note that the centerline maximum temperature is about 70 degrees hotter for the tongue mixer, and the outer temperature zone show two smaller temperature spikes at about 700 deg. R and a profile that is different than that shown for the 20 lobe deep mixer (20DH) in Figure 64.

2.3 Selected Tt Profiles at all x/D Values from 0.2 to 10.0

Figures 65 to 72 characterize the Tt profile for the 20 lobe deep mixer (20DH) at the 1.54 NPR)core condition at x/D values from 0.2 to 10.0, which illustrate significant temperature contour transformation as the plume undergoes mixing.

At x/D of 0.2, nearest the nozzle exit, the characteristics described above are repeated in Figure 66. At x/D of 0.5, the profile has not changed significantly, except the maximum "centerline" temperature is observed to have shifted slightly off-center to a "Z" value of 0.25 inches.

At x/D of 1.0, Figure 68, the maximum temperature level continues to drop at the centerline, with a less noticeable change in the outer zones. Moving to x/D of 3.0 the mixing process causes a more significant "smoothing" of the outer zone with a very symmetrical, "bell" shaped profile being produced .

Moving on to x/D values of 5.0, 7.5 and 10.0, shown in Figures 70, 71 and 72 respectively, the smooth "bell" shaped profile continues to reduce at the center zone and spread outwards. The contour is observed to be, within measurement accuracy, fairly symmetrical and does not exhibit any non-symmetrical "blips" as noted earlier in the velocity profiles. It is noted that while the temperature profiles appear to be very symmetrical, the center of the profile is shifted slightly in the positive "Z" direction away from the nozzle centerline at x/D values of 0.5, 7.5 and 10.0, i.e., as seen in Figure 72. The reason for this shift is not known, but may be related to the shift observed previously in the velocity profiles.

3.0 Conclusions

1. The 1996-97 AST Mixer plume testing has generated a very significant data bank of plume measurements for several Rolls-Royce Allison acoustic mixers. A small portion of this data, showing representative trends, has been presented in this report, and other plots, of specific interest, can be generated as required in the future.

2. The plotted plume data show velocity and total temperatures that range from fairly

complex contours near the nozzle exit to more smoothly "parabolic" or "bell-shaped" contours at x/D values of 10.0 as the mixing process approaches a more fully mixed condition. The benefit of the mixer geometry in enhancing the mixing process is clearly shown by the reduced "core" length of the plume, typically about one nozzle diameter long, as compared to a classical, axisymmetric convergent nozzle where the core length is on the order of six to eight nozzle diameters long.

3. While the effect of the individual mixer geometric designs can be seen in the maximum centerline velocity and temperature values very near to the nozzle exit plane, i.e. at x/D values generally less than 1.0, the mixer individual "signature" effects are significantly reduced as the centerline decay values tend to merge for all mixers at x/D approaching 10.0 and are influenced by the global mixing effects dictated by energy conservation at the given BPR and total temperature ratio of the test condition.

4. The individual velocity and total temperature contours for all mixers show some general similarity as the contours are transformed by the mixing process with increasing x/D position. In general, the profiles are symmetrical, from top to bottom, in the vertical measurement plane (as the "Y" value is traversed). Some symmetry anomalies were observed in the velocity profiles (in the "Z" plane) which may be due to bad probe data. Also, observed shifts in the maximum or centerline velocity and temperature values ('Y' value of 0.0) may be due to small misalignment between the hot nozzle and the plume rakes.

5. The plume survey data will be very useful in future comparisons to CFD results in evaluating the accuracy of predicted plume temperature and velocity profiles. Also, the plume data should be of value in the analysis of the corresponding acoustic data taken with each mixer. In particular, the velocity profiles at x/D of 0.2 may be useful in obtaining an integrated average velocity for use in correlating with the acoustic data. Further work should also be expended in comparison of this database with other published plume data for forced mixers, if available. This database may also be of use in the design of infra-red (I-R) suppression exhaust nozzles where rapid temperature mixing is required to reduce the I-R signature.

Table I Test Conditions for Mixer Plume Tests

Condition	NPR)core	NPR)fan	Tt)core/Tt)fan	Mn)FS = (M(fj))
Cycle F	1.39	1.44	2.34	0.2
Cycle G	1.54	1.61	2.62	0.2
Cycle H	1.74	1.82	2.79	0.2

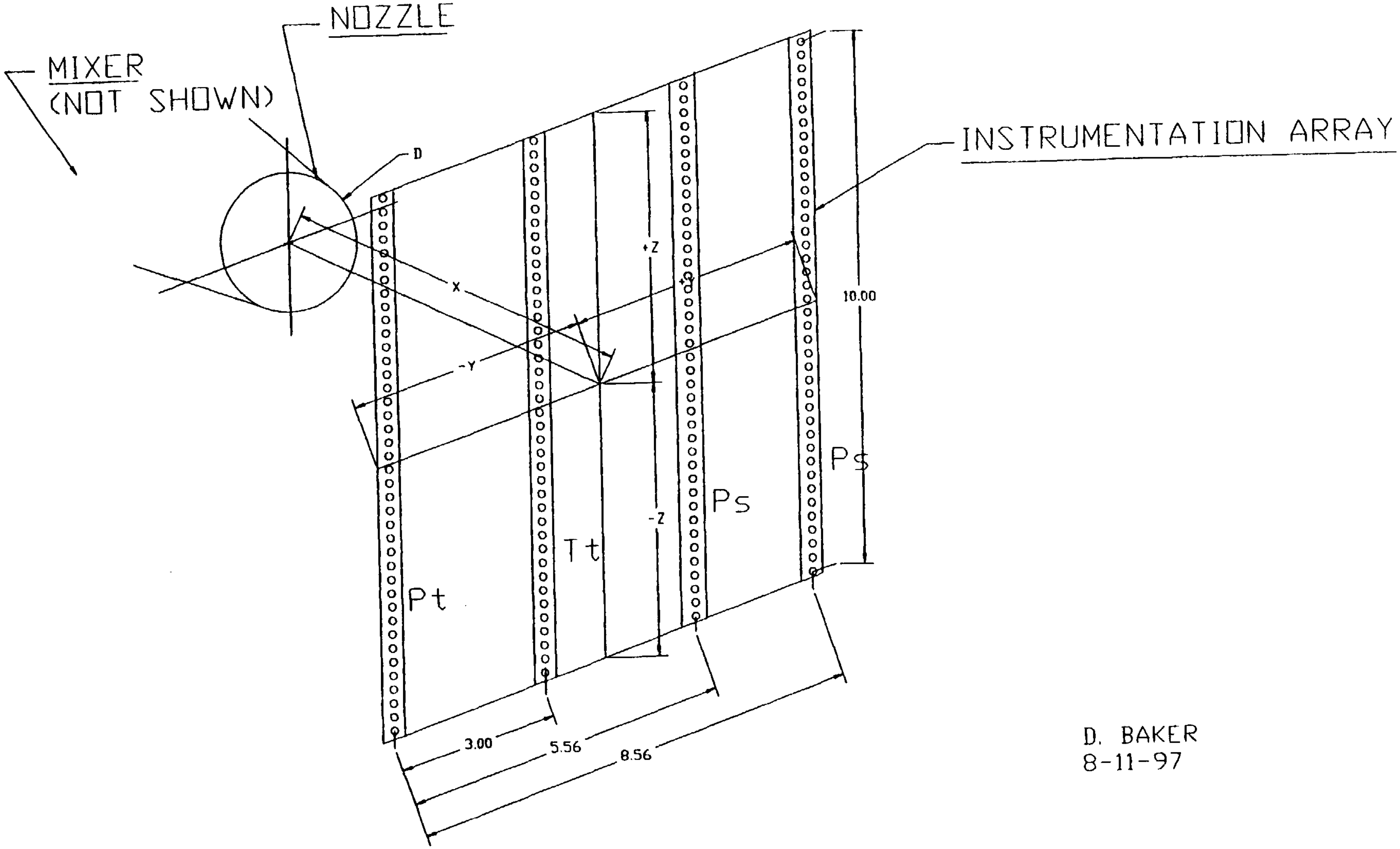
Table II 1995-96 Rolls-Royce Allison/NASA Mixers

Mixer Description	Exhaust Nozzle Length	Comments
12 lobe baseline (12CL)	100%	With lobe sidewall cut-outs
12 lobe baseline (12CL)	50%	With lobe sidewall cut-outs
20 lobe deep-scalloped (20DH)	100%	Common lobe design
20 lobe deep-scalloped (20DH)	100%	Common lobe design
Internal tongue (12TH)	100%	12 pairs of tongues

Table III Profile Comparison Examples

Mixer/Nozzle	Test Condition	Figure
20 Lobe Deep /100% L (20DH)	1.39 NPR)core	10
12 Lobe B'Line/100% L (12CL)	1.39 NPR)core	12
12 Lobe B'Line/50% L (12CL)	1.39 NPR)core	13
Internal Tongue/100% L (12TH)	1.39 NPR)core	18

FIGURE A TRAVERSING RAKE SKETCH & AXIS DEFINITION



D. BAKER
8-11-97

Figure 1 Comparison of maximum (center-line) velocity decay for several mixers at TO#1 and M(fj) = 0.2.

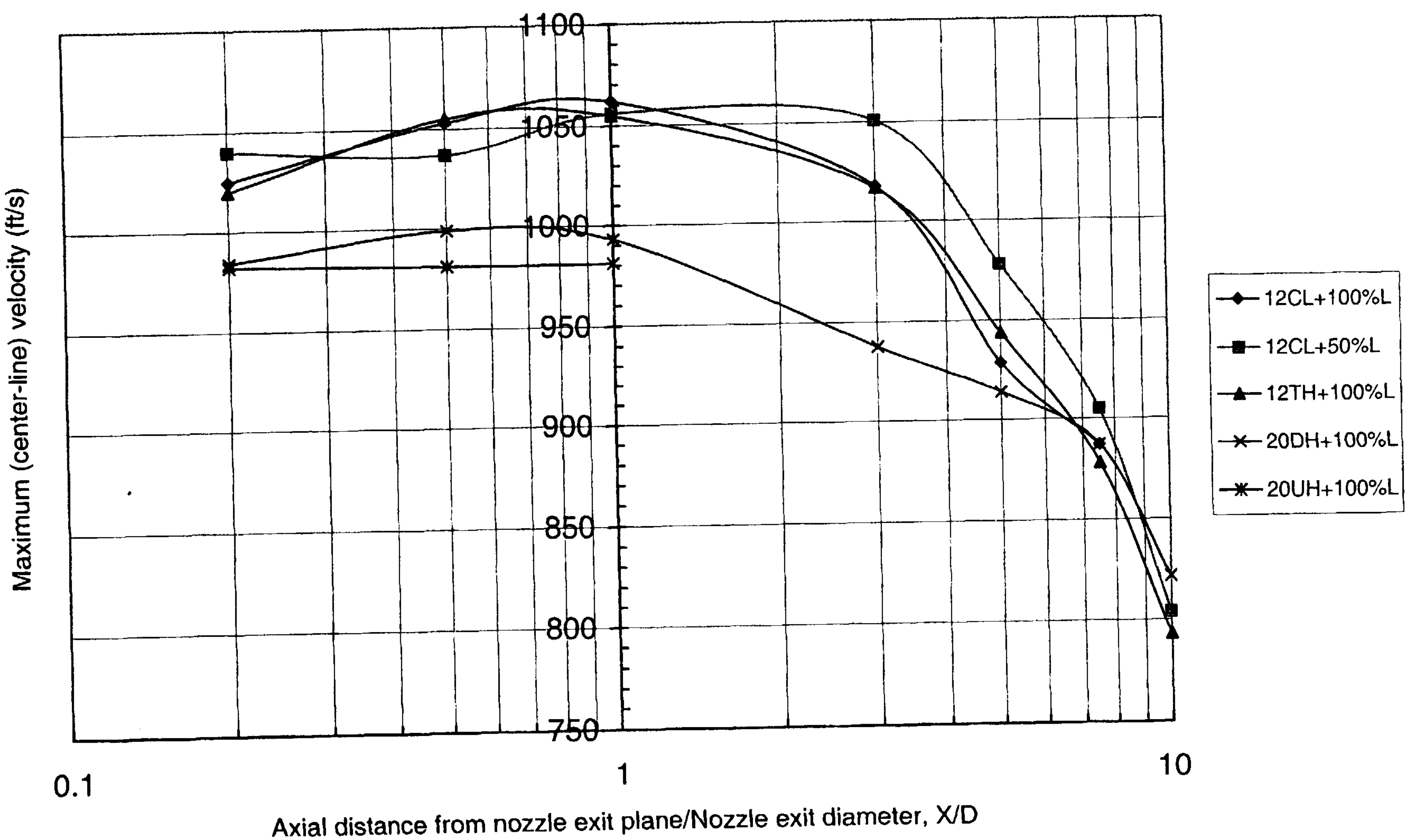


Figure 2. Comparison of maximum (center-line) velocity decay for 12CL and 20DH mixers at TO #2 and TO #3 at M(fj) = 0.2

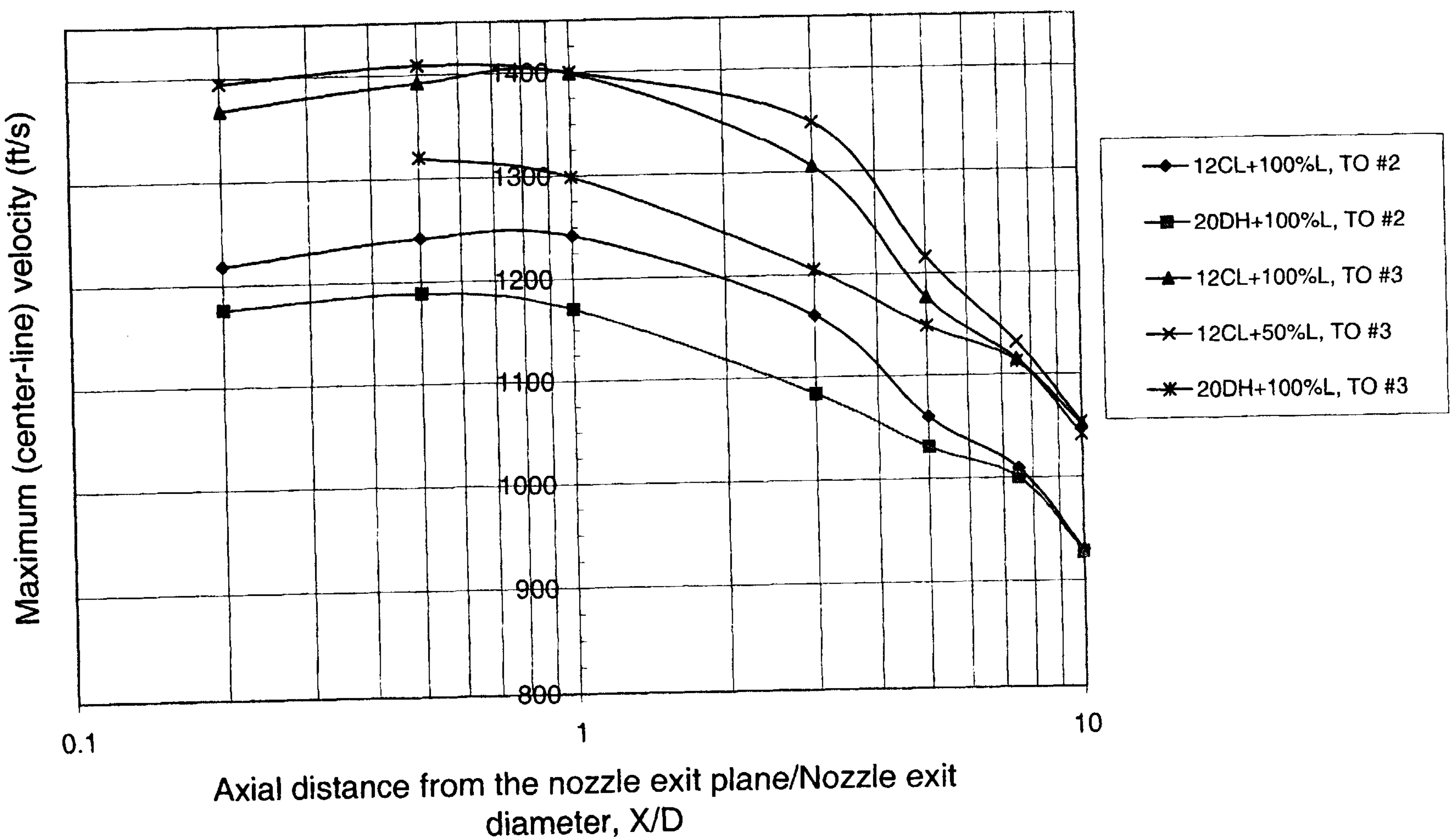
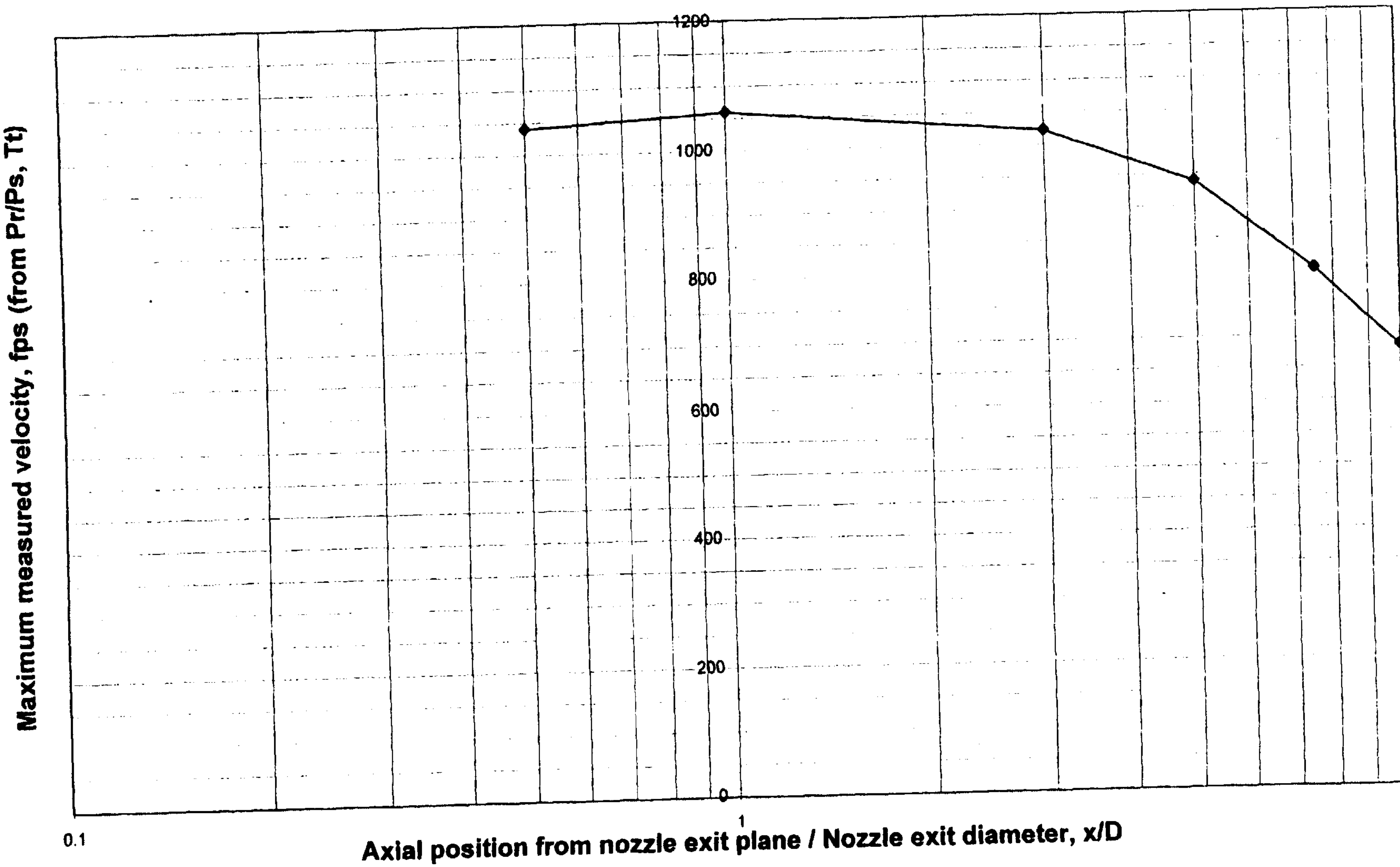


FIGURE 3

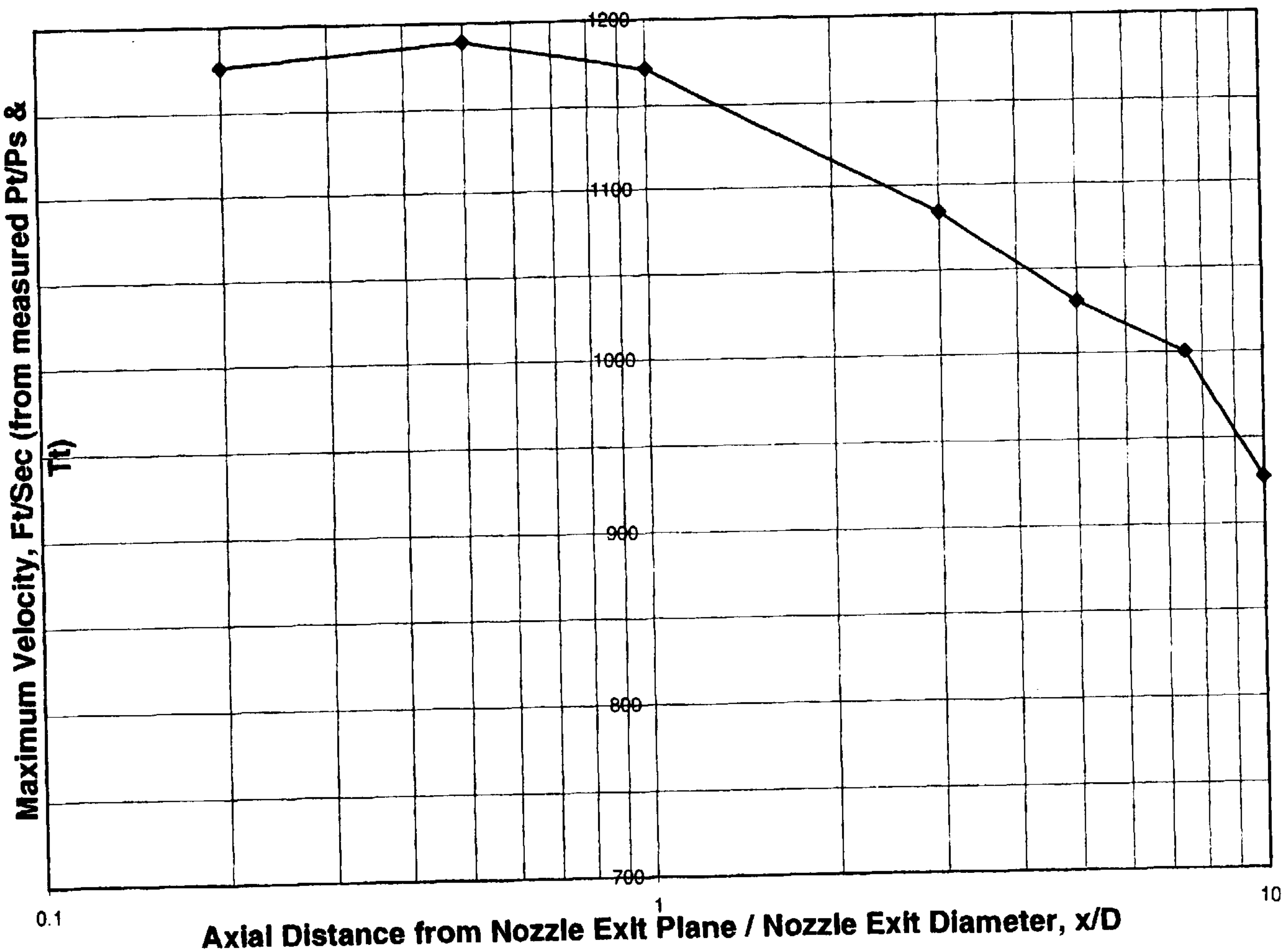
Internal Tongue Mixer - Maximum "Near Centerline" Plume Velocity Decay - 1996 Nasa Tests-
100% Nozzle Length,1.39 NPR)c, 1.44 NPR)f, 2.34 Tt)h/ Tt)c, 0.0 Mn)FS



D. Baker 3/3/97

FIGURE 4

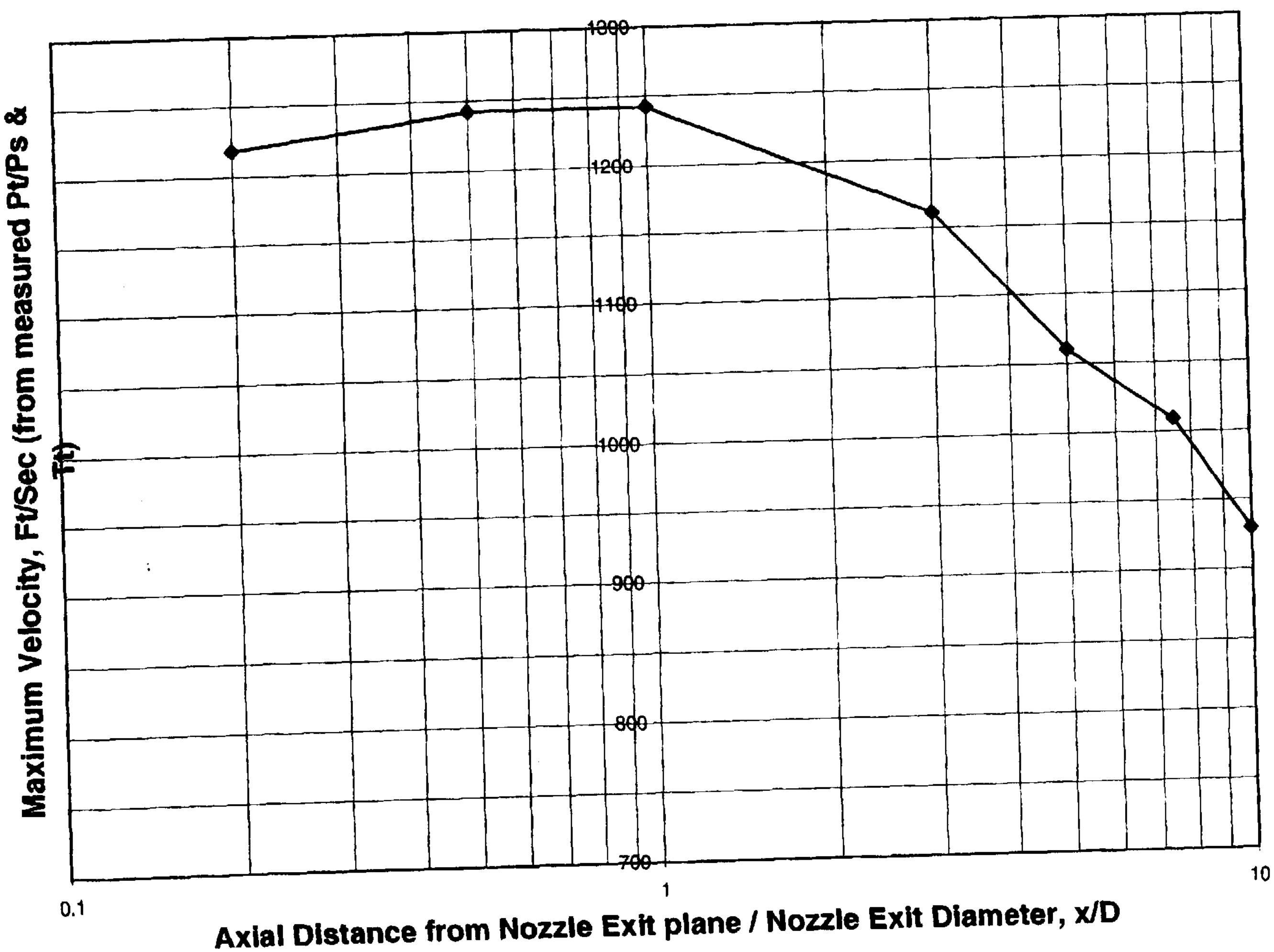
Maximum "Centerline" Velocity Decay, 20L Deep Mixer, 100% Nozzle Length, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests
Rdg #'s V547, V548, V549, V558, V561, V559, V560



D. Baker, 7/15/97; FILE:CLINEV4.xls

FIGURE 5

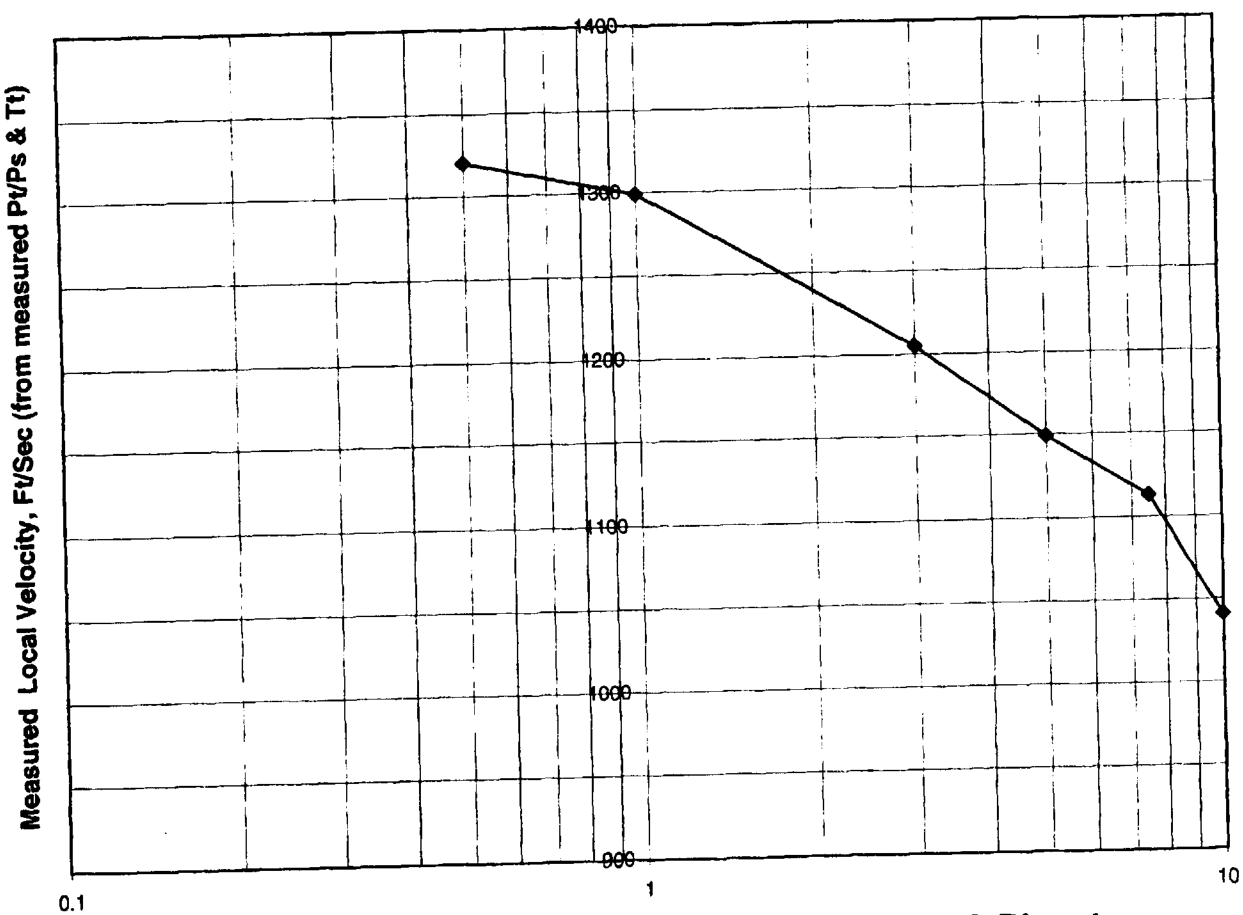
Maximum "Centerline" Velocity Decay, 12L Baseline Mixer with Cutouts, 100% Nozzle Length, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg #'s V575, V573, V574, V572, V571, V570, V569



D. Baker, 7/16/97; FILE: CLINEV4.xls

FIGURE 6

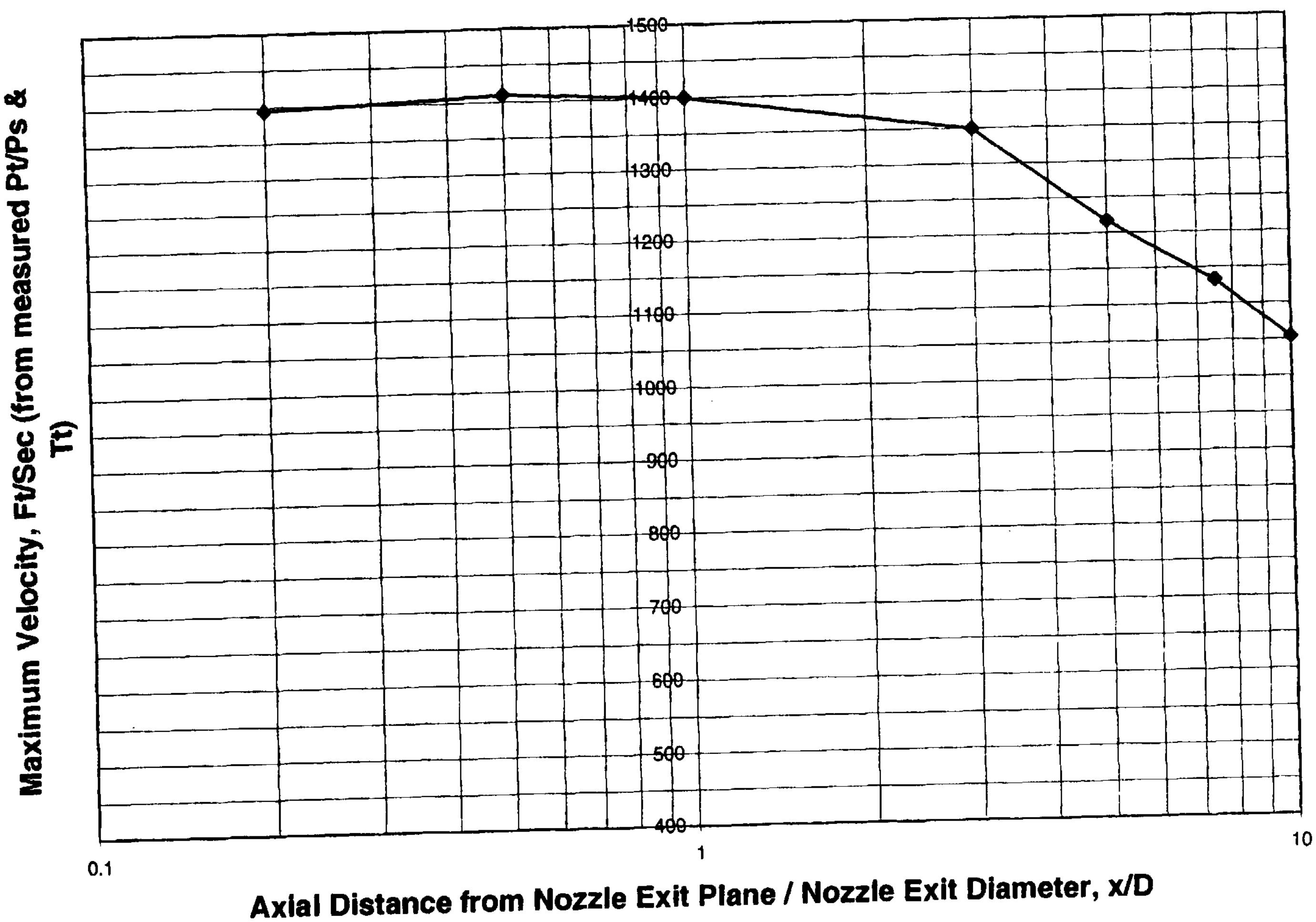
Maximum "Centerline" Velocity Decay -20 Lobe Deep Scalloped Mixer - 100% Nozzle Length - 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS -Rdg #s V541 to V546 - 1996 NASA-LeRC Acoustic Mixer Plume Tests



D. Baker, 6/17/97 File:CLINEV2.XLS

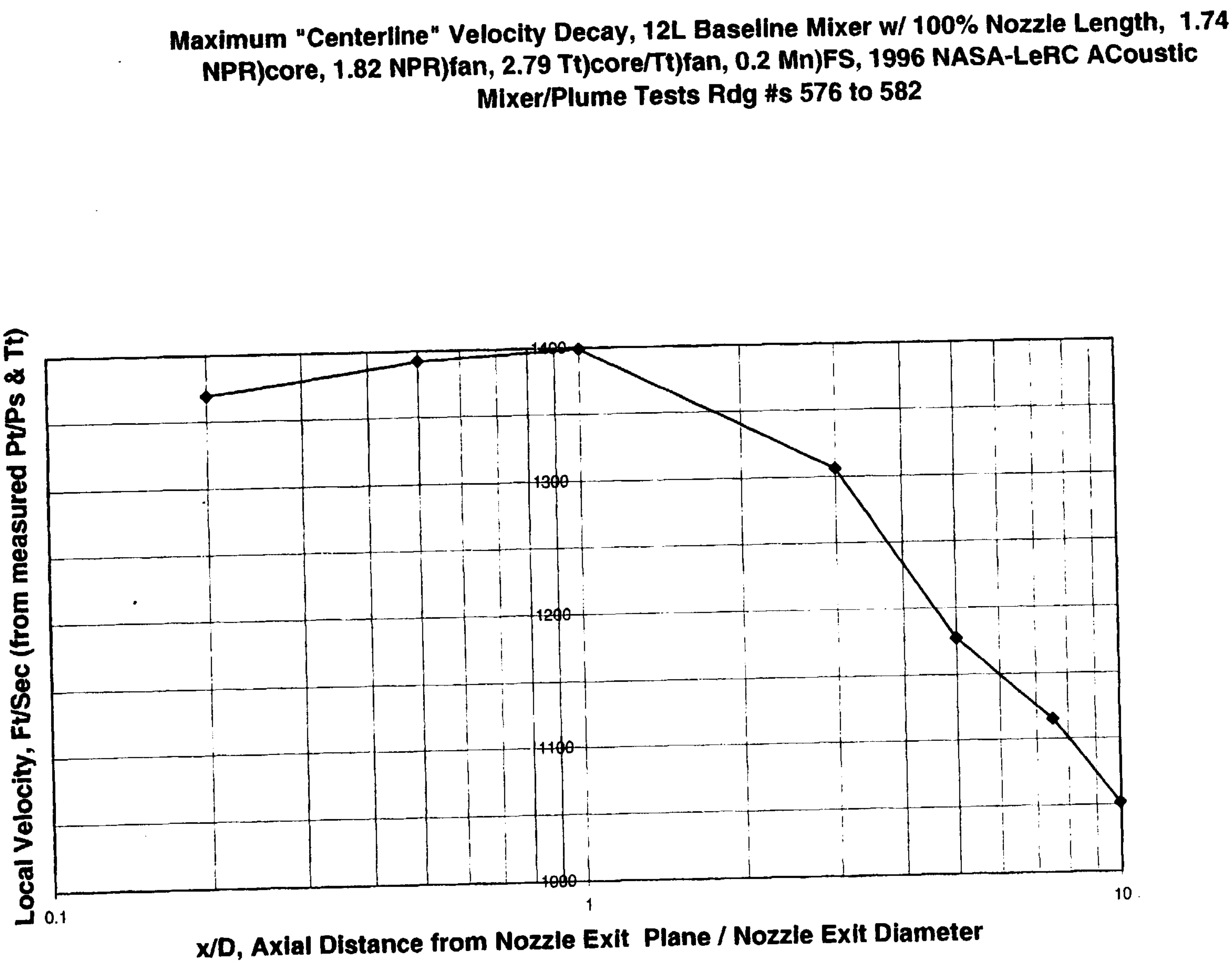
FIGURE 7

Maximum "Centerline" Velocity Decay, 12L Baseline Mixer w 50% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg #s V597 to V603



D. Baker 6/19/97; FILE: CLINEV4.xls

FIGURE 8



D. Baker, 6/19/97: File: CLINEV4.XLS

Figure 9. Vertical chordwise velocity profiles for 20DH mixer with 100% nozzle length at X/D=0.2 for TO #1, M(fj) = 0.2.

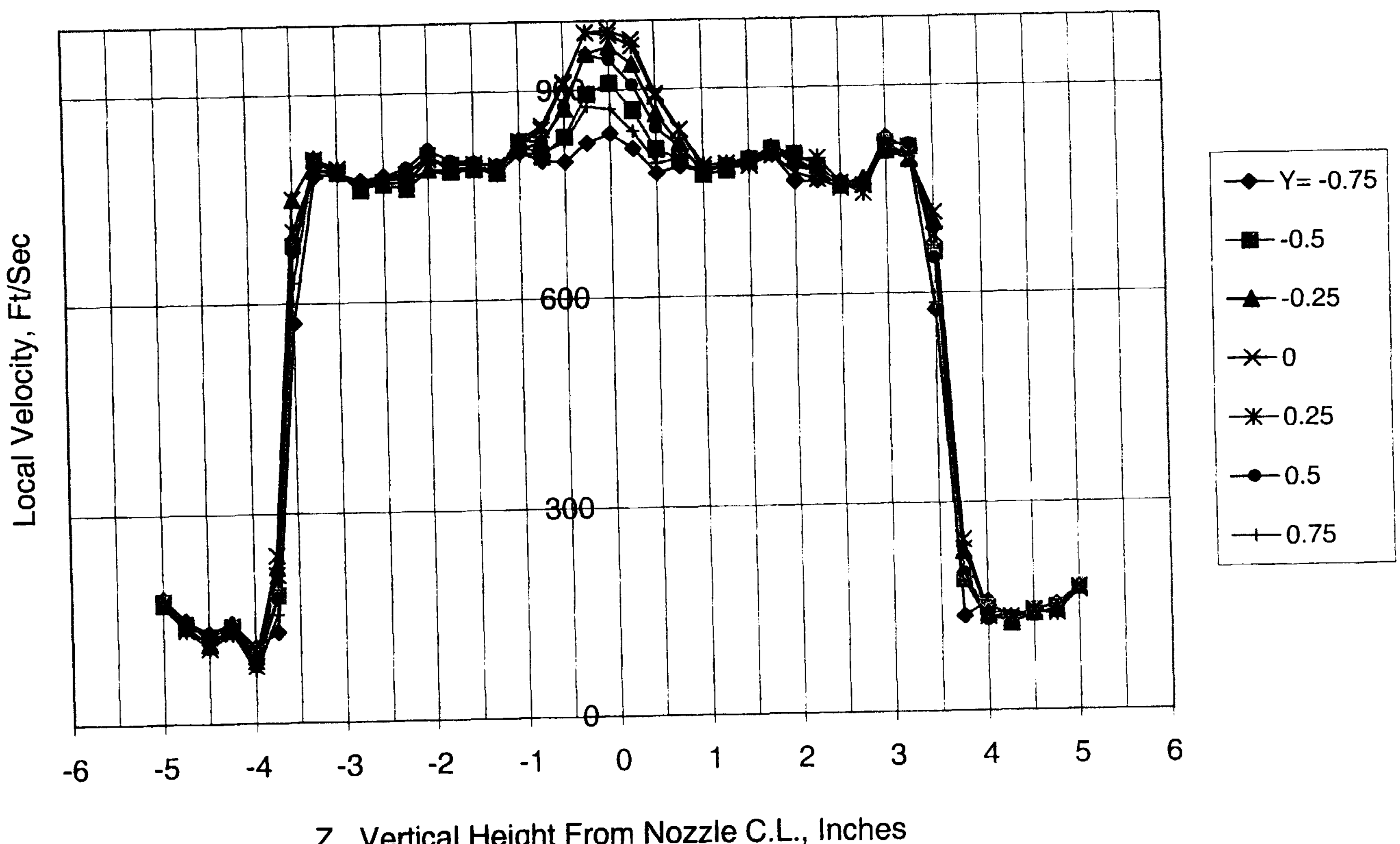
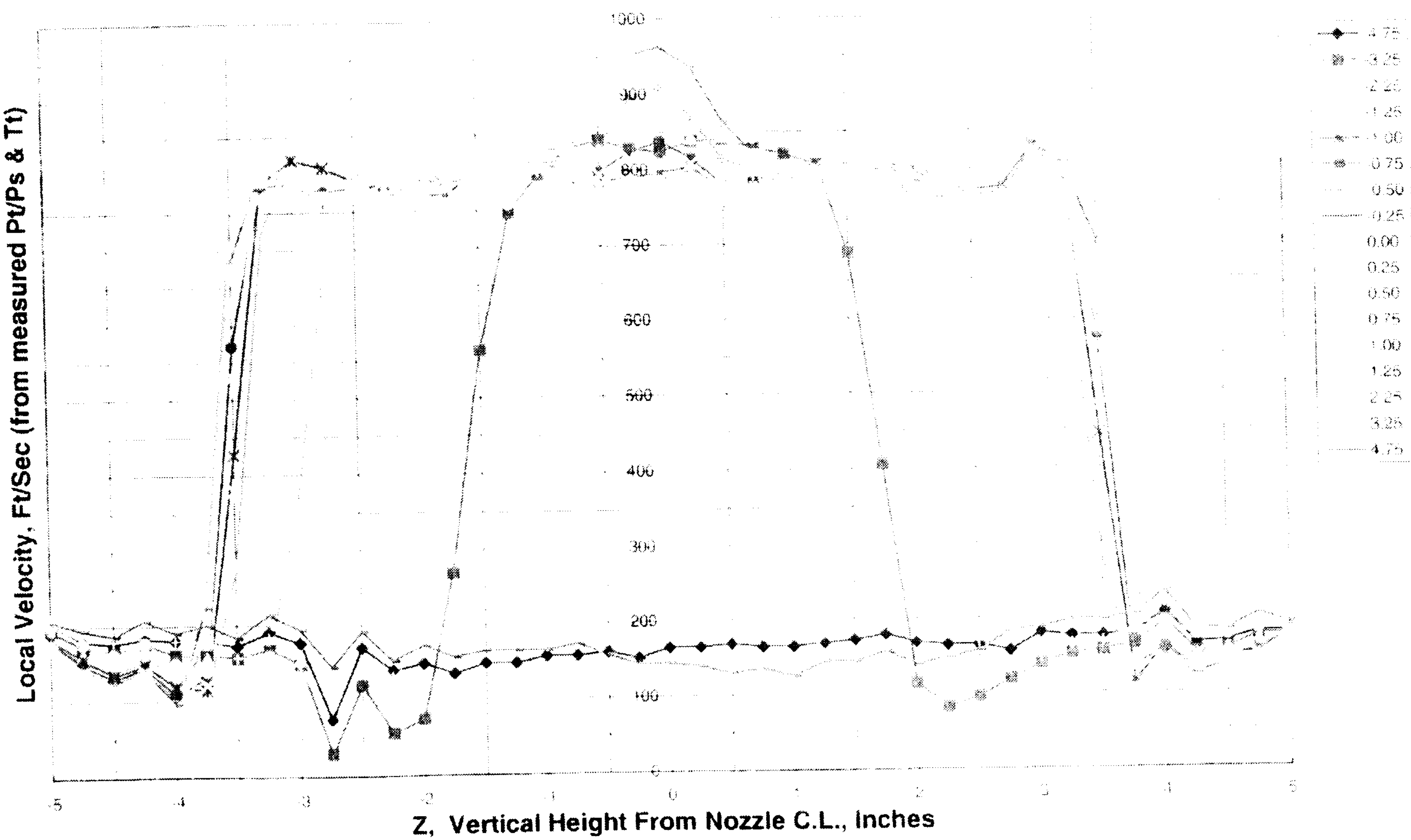


FIGURE 10

20L Deep Mixer Velocity Survey at x/D=0.2, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, Mn)FS= 0.2, 1996 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # V550



D. Baker 3/15/97 File: XXV550.xls

Fig 11(a). 20DH Mixer, 100%L, Velocity Contours at x/D = 0.2 at TO #2, M(fj) = 0.2

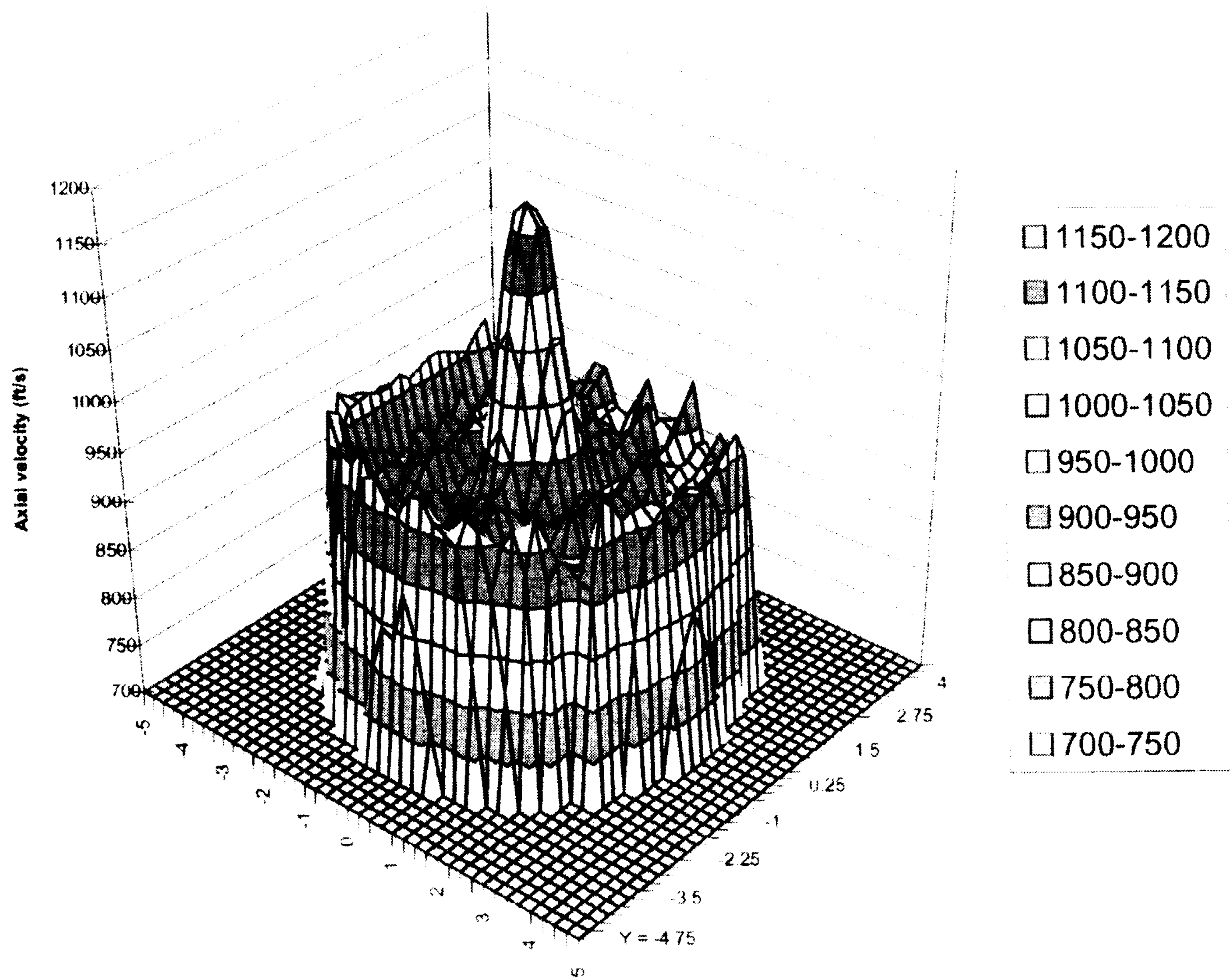


FIGURE 11(b)

20L Deep Mixer, 100% Nozzle Length, Velocity Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V560

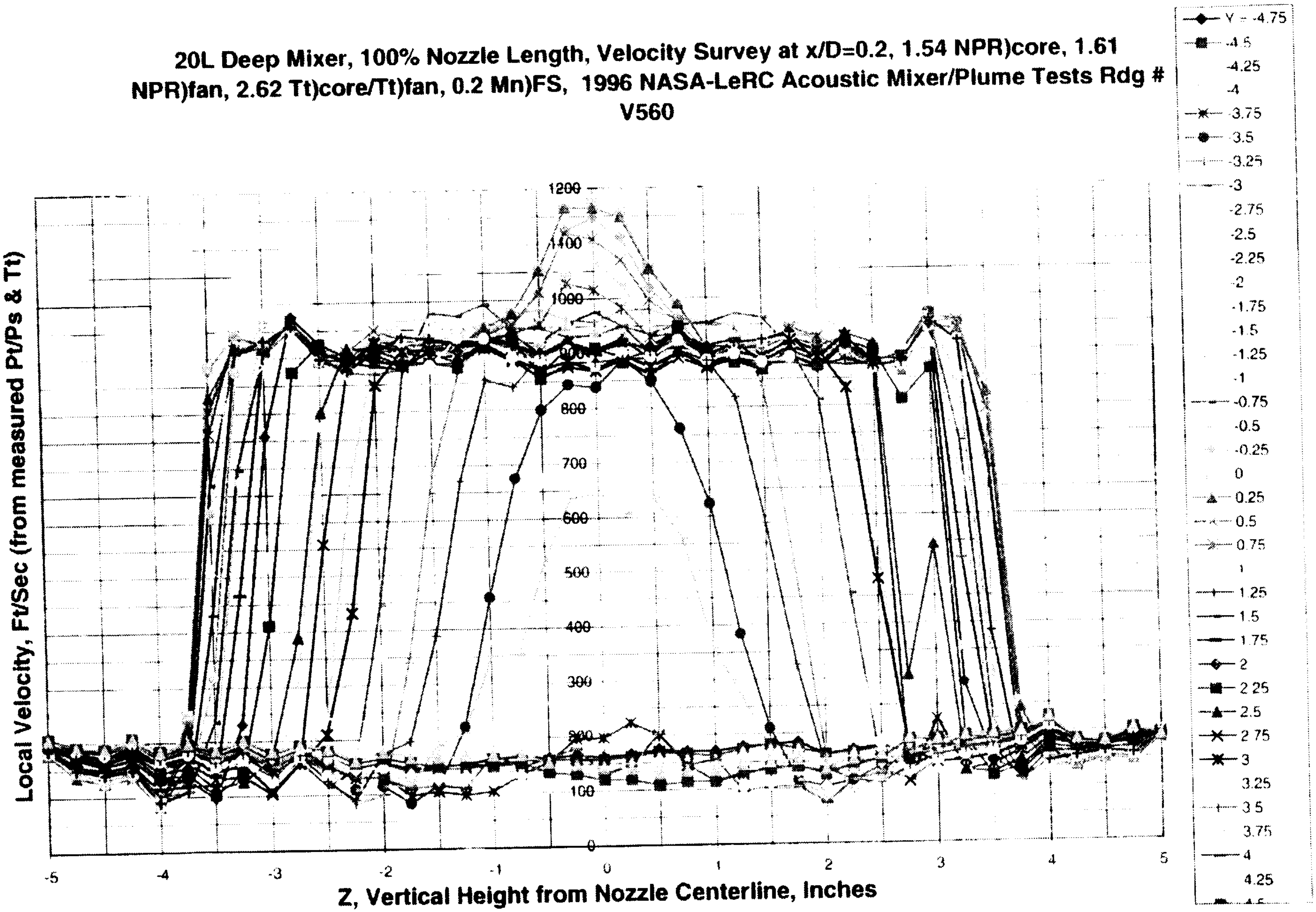


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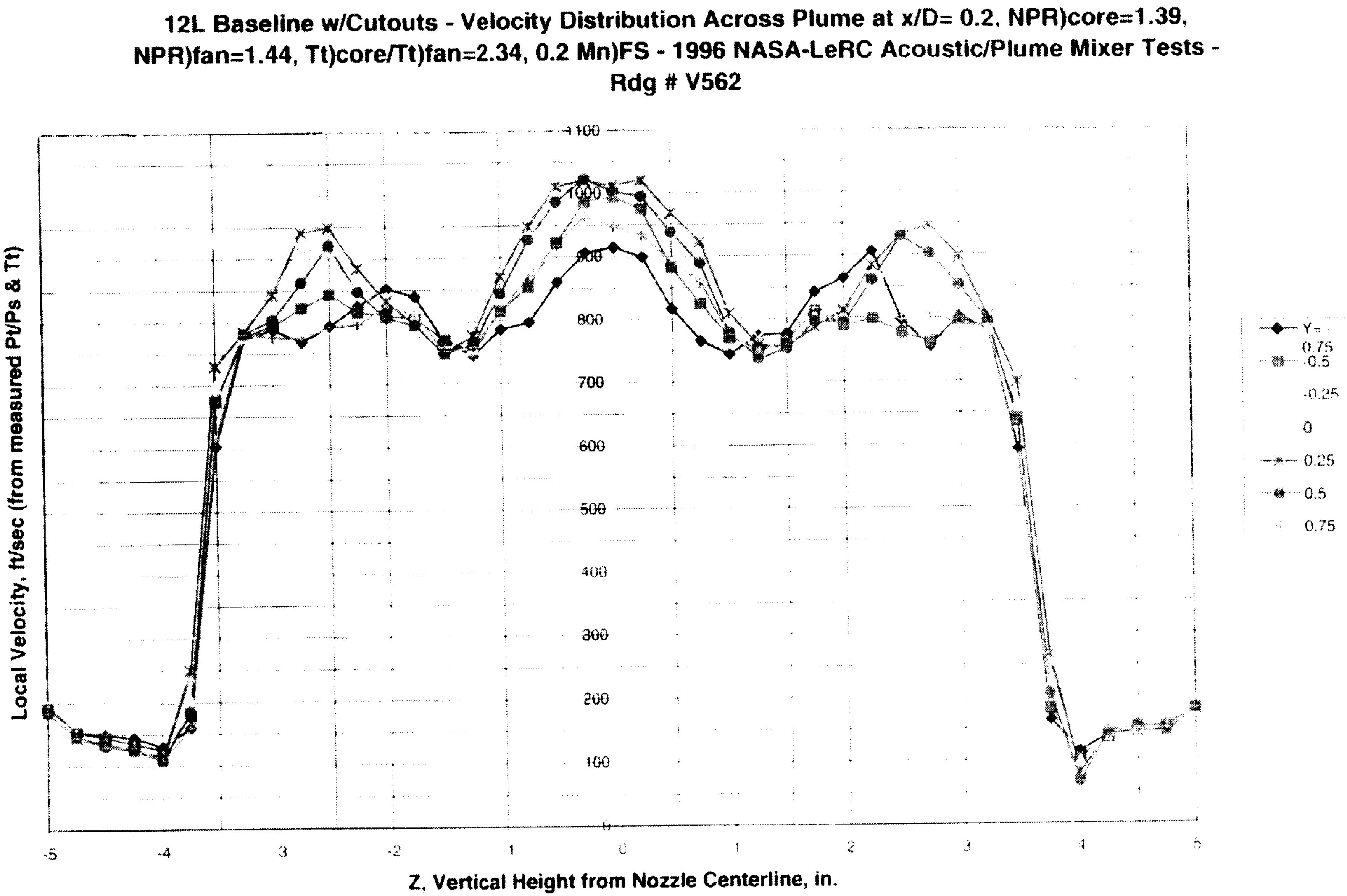
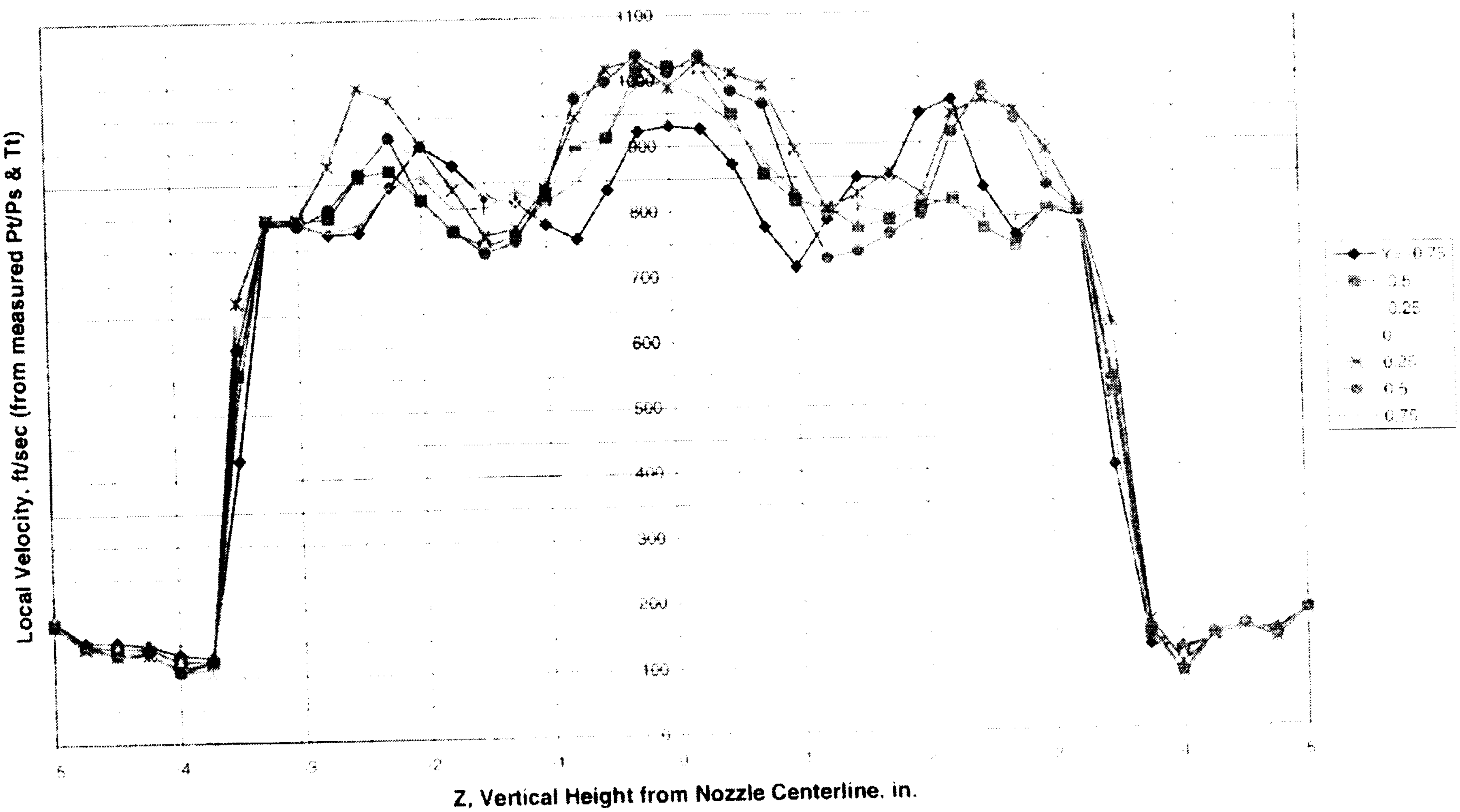
FIGURE 12



D. Baker 3/7/97 File: XXV562.XLS

FIGURE 13

12 Lobe w/cutouts, 50% Nozzle Length - Velocity Distribution Across Plume at x/D=0.2, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.37, 0.2 Mn)FS - 1996 NASA LeRC Acoustic Mixer/plume Tests - Rdg# V583



D. Baker 3/7/97 File: XXV583.XLS

Figure 14(a). 12L Baseline Mixer (12CL) w/50% Nozzle Length Velocity Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V596

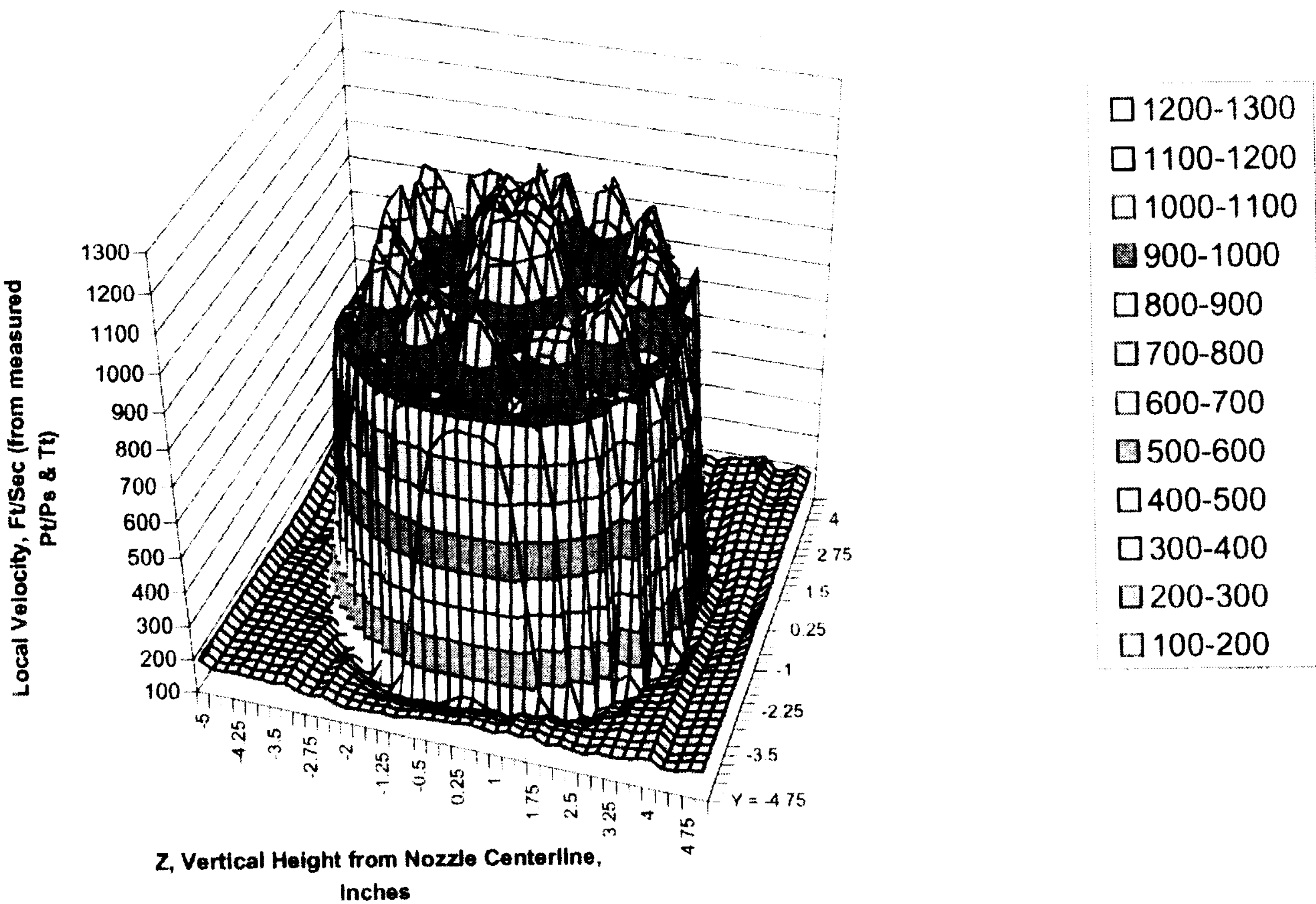
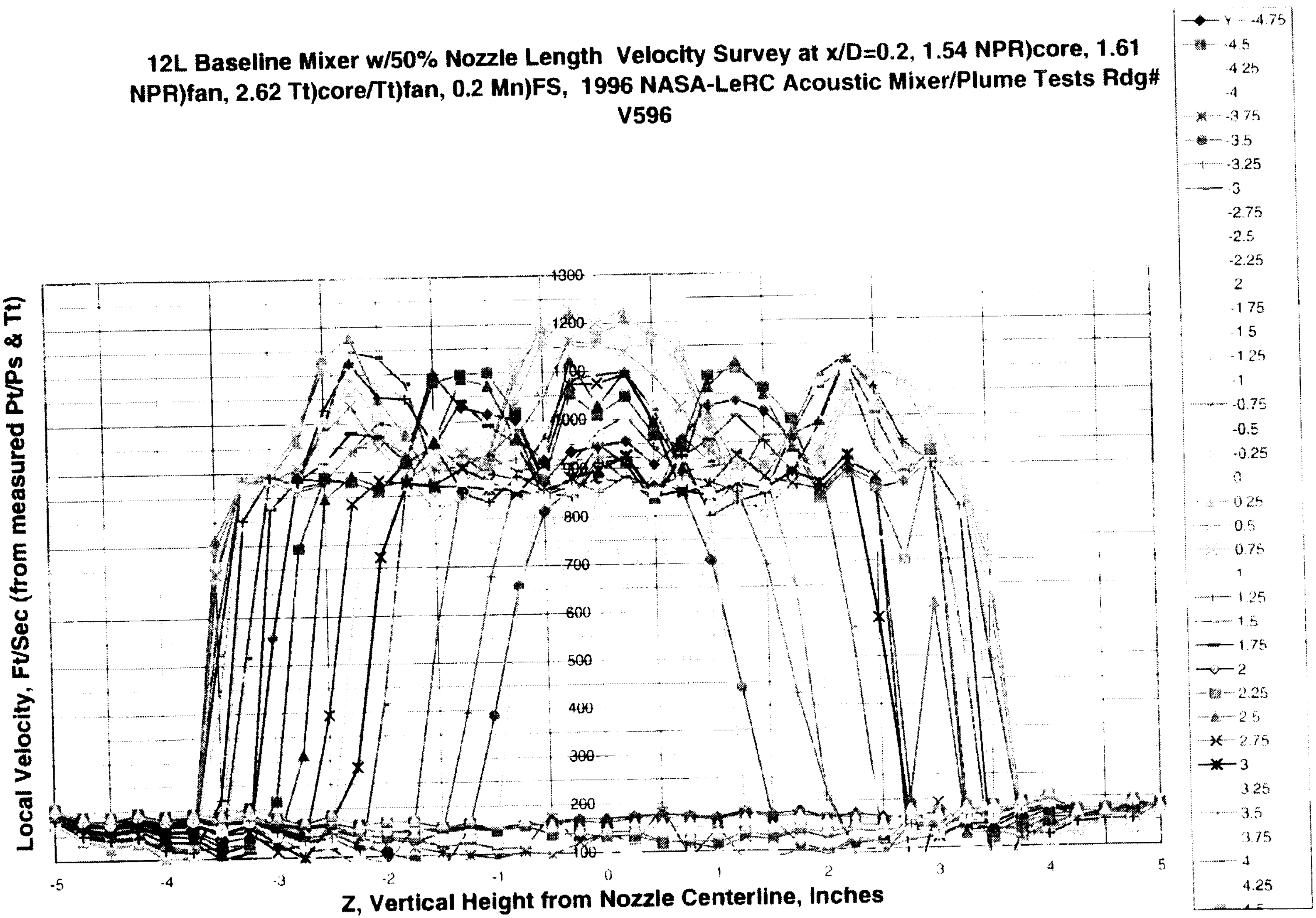


FIGURE 14(b)

12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V596



D. Baker, 6/19/97; File:XV596.XLS

Figure 15(a). 12L Baseline with Cutouts (12CL), 100% Nozzle Length, Velocity Survey @ x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V575

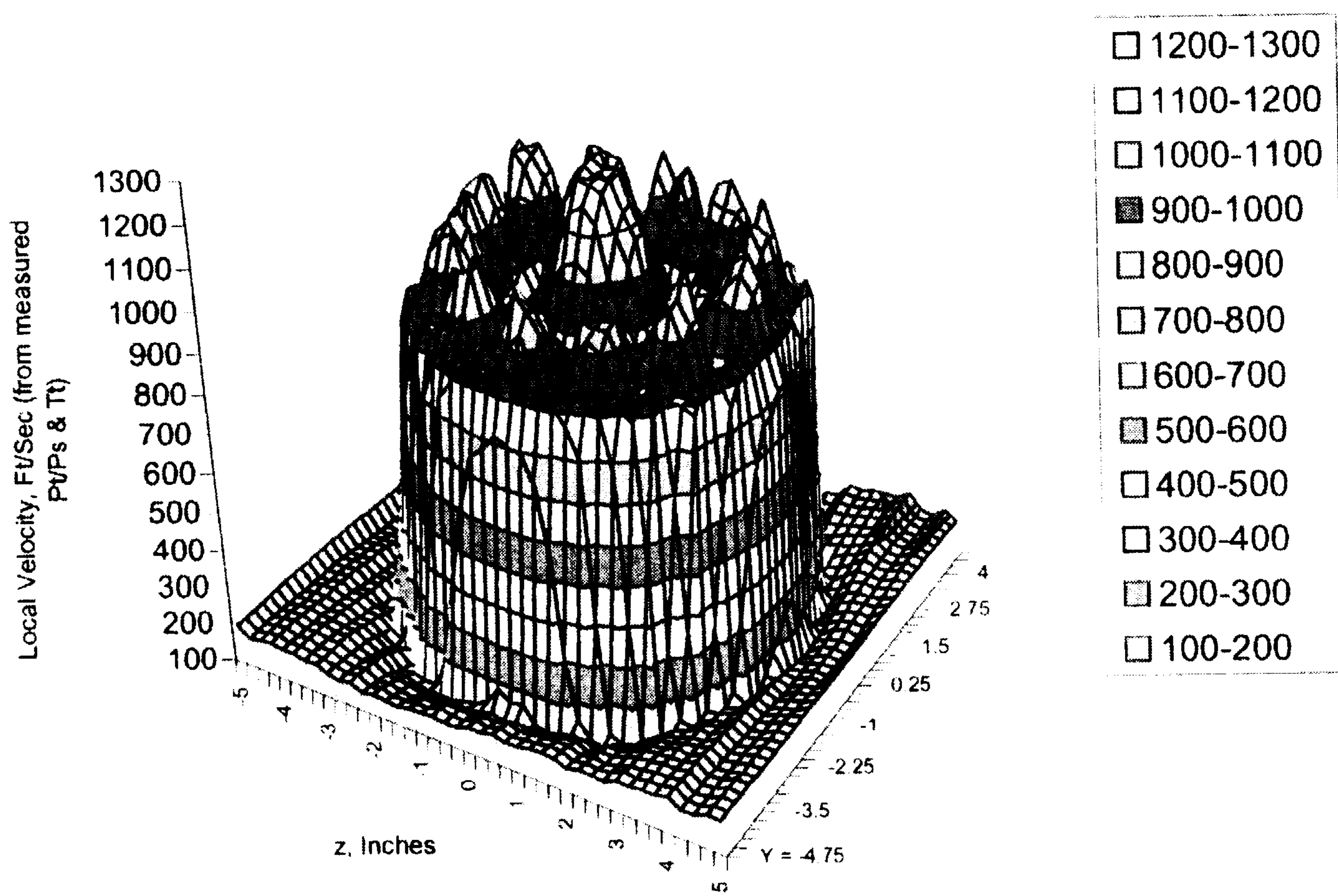
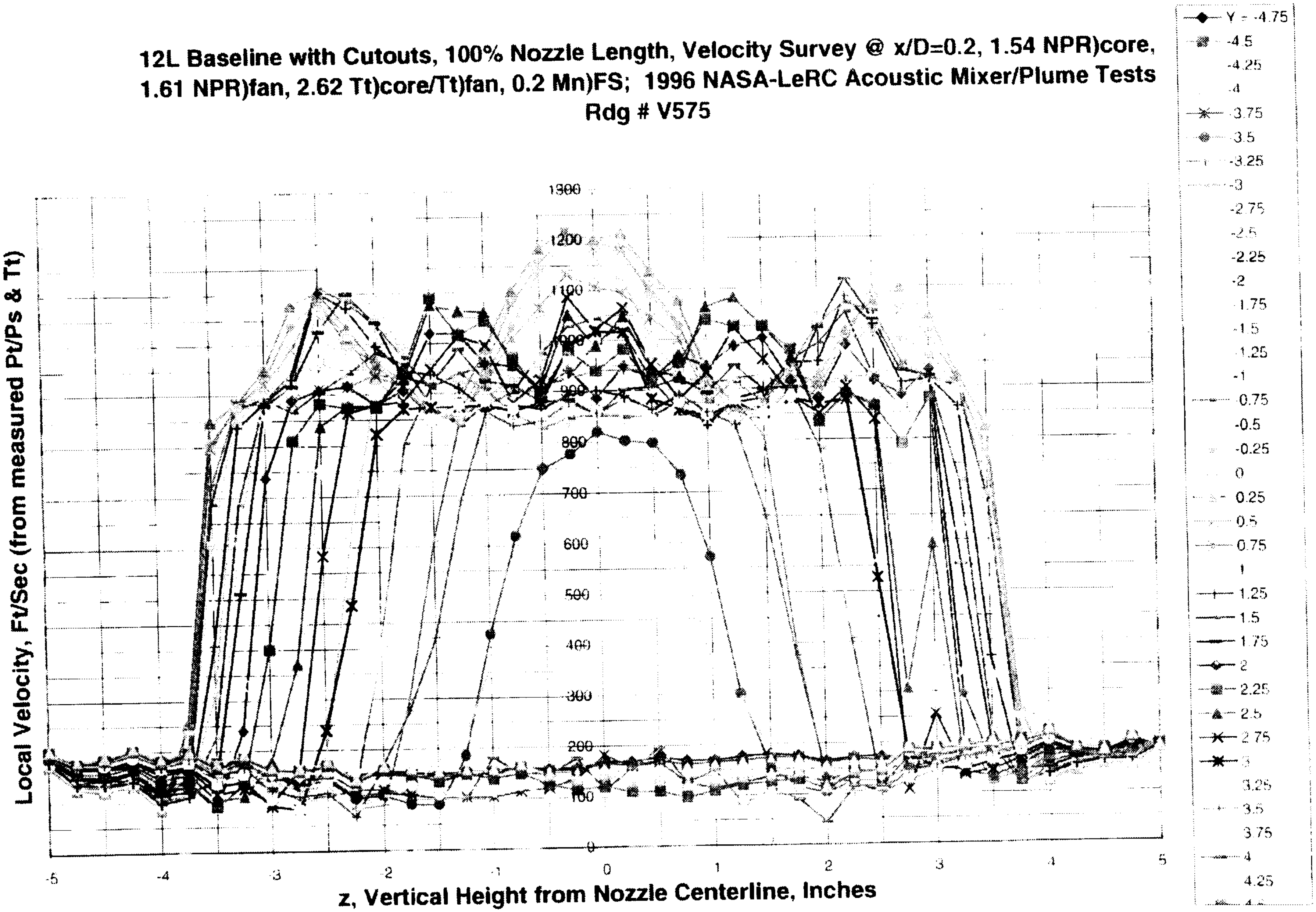


FIGURE 15(b)



D. Baker 7/16/97; FILE: XV575.xls

Figure 16(a). Velocity profiles for 12CL mixer with 50% nozzle length at X/D = 0.2 for TO #3 at M(fj) = 0.2.

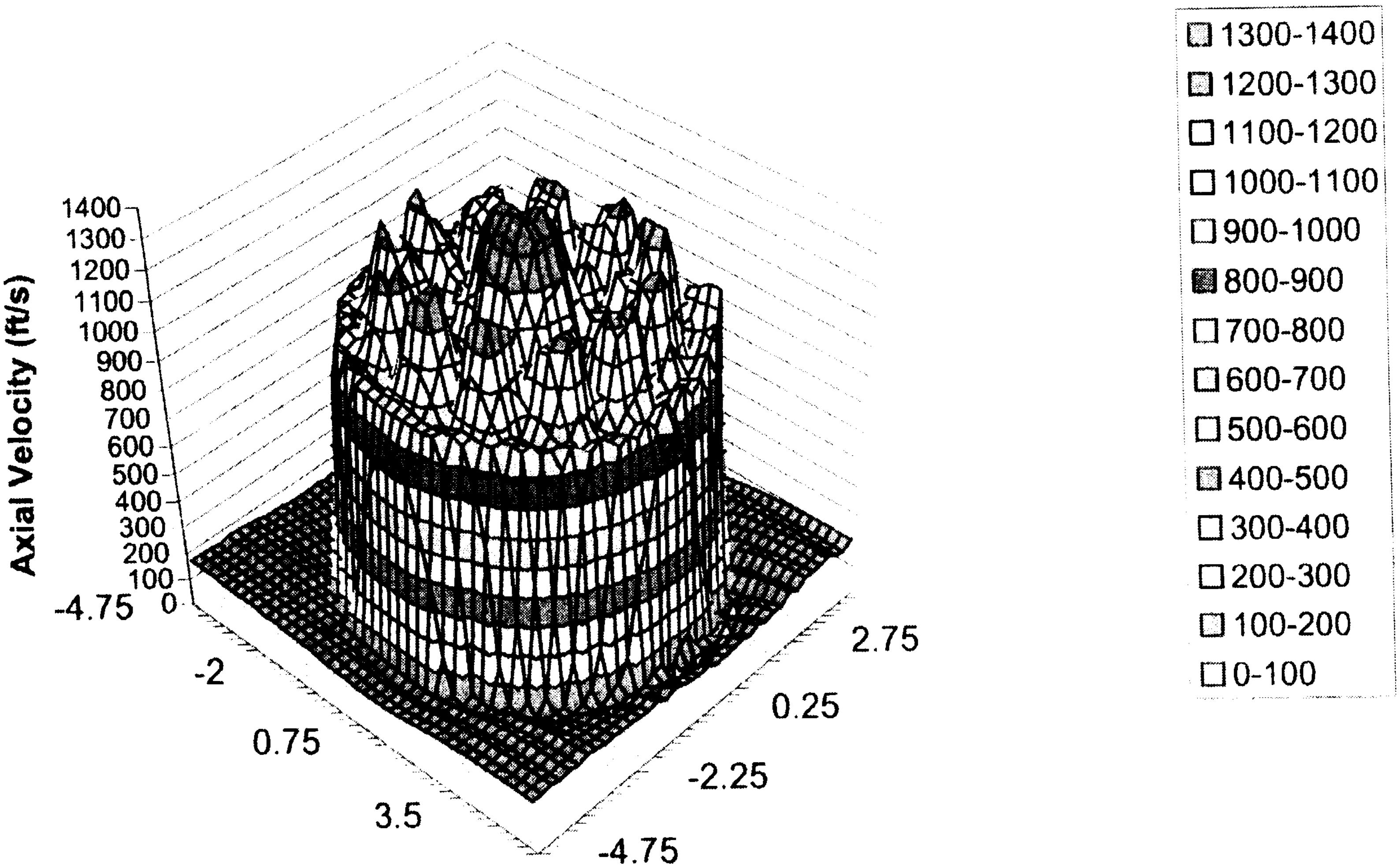
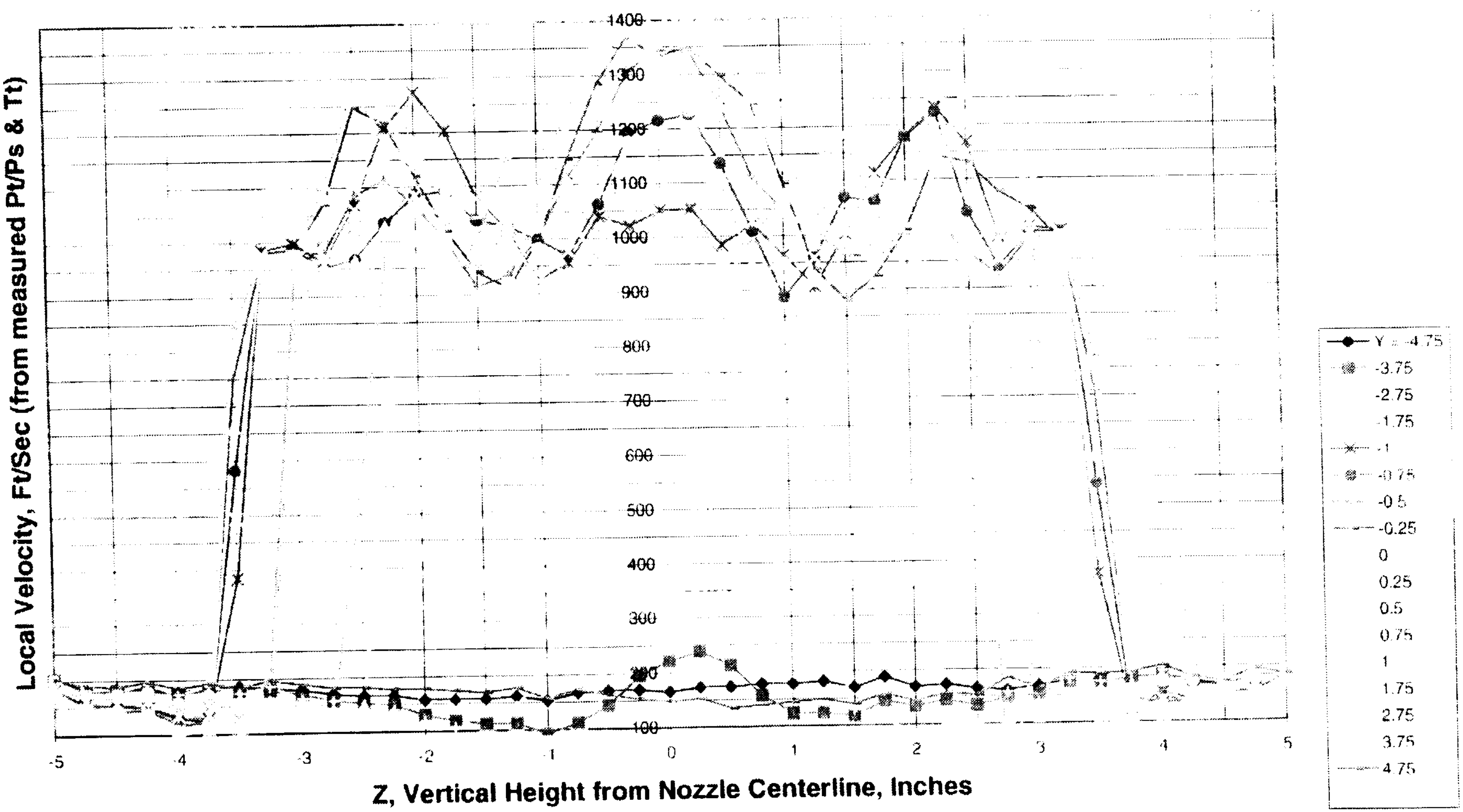


FIGURE 16(b)

12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=0.2 (with some Y values removed for clarity); 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg #V597



D. Baker, 6/17/97: File: XV597.XLS

Figure 17 (a). 12L Baseline Mixer (12CL) w/100% Nozzle Length. Velocity Survey at x/D=0.2, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS. 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V576

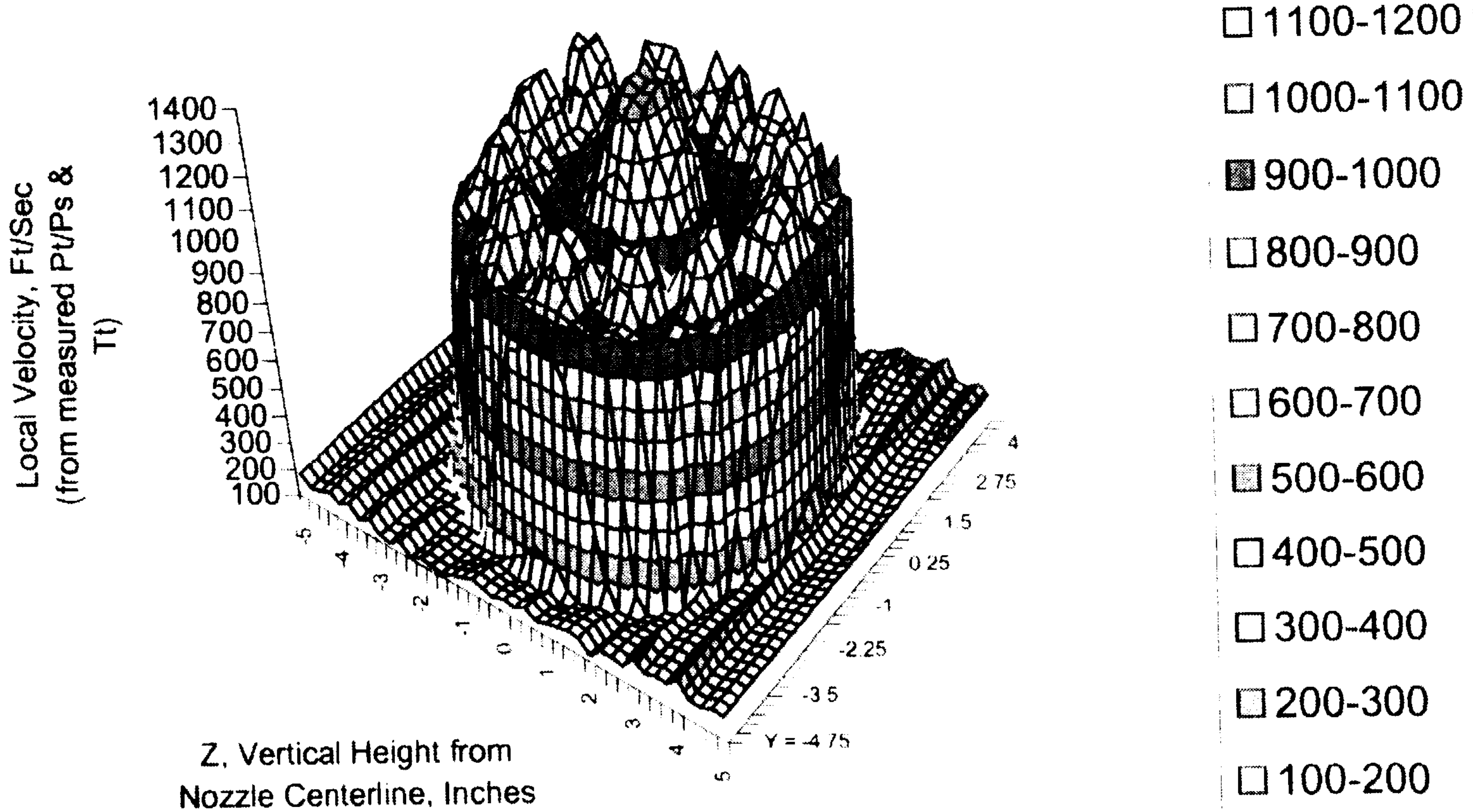
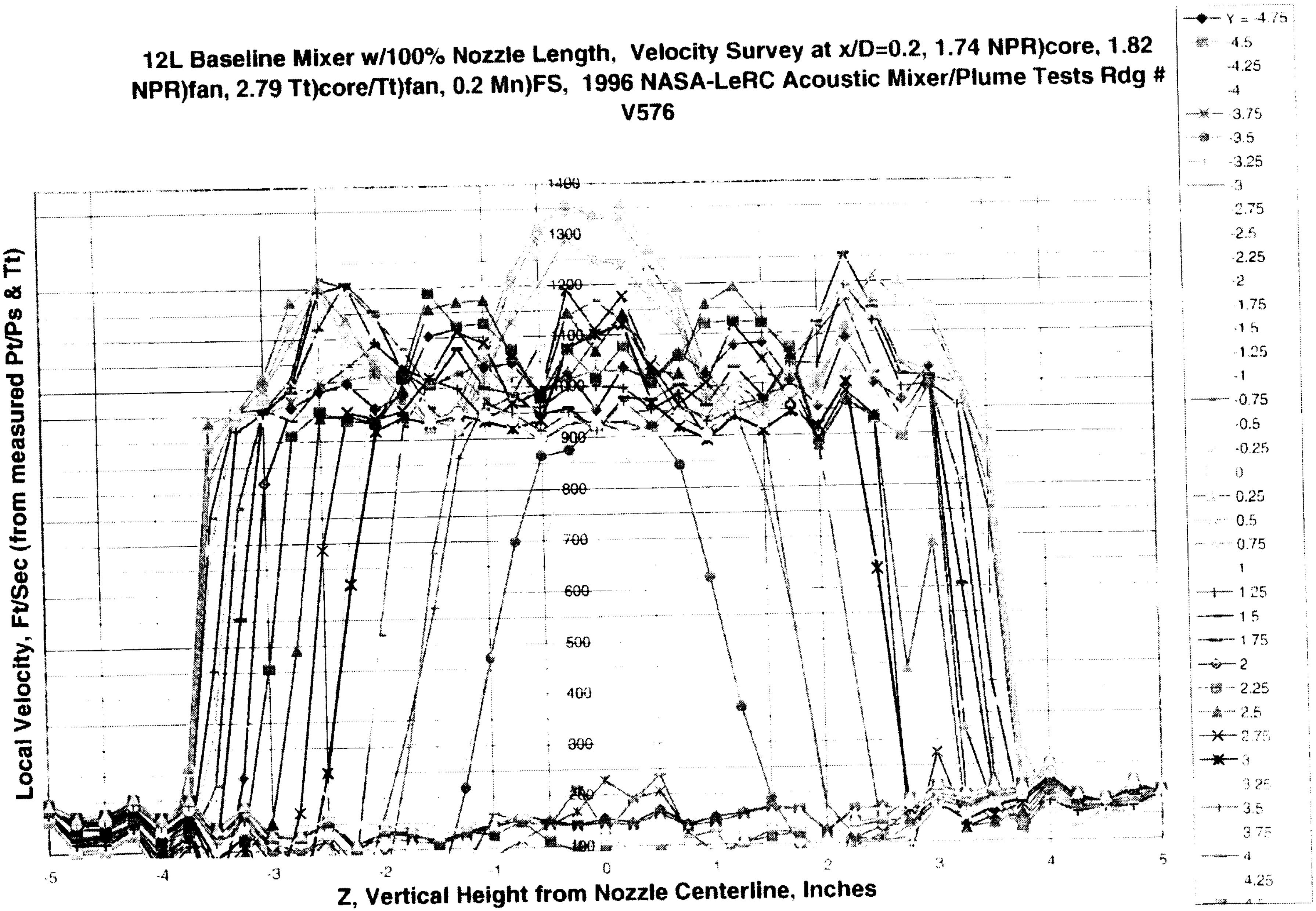


FIGURE 17(b)

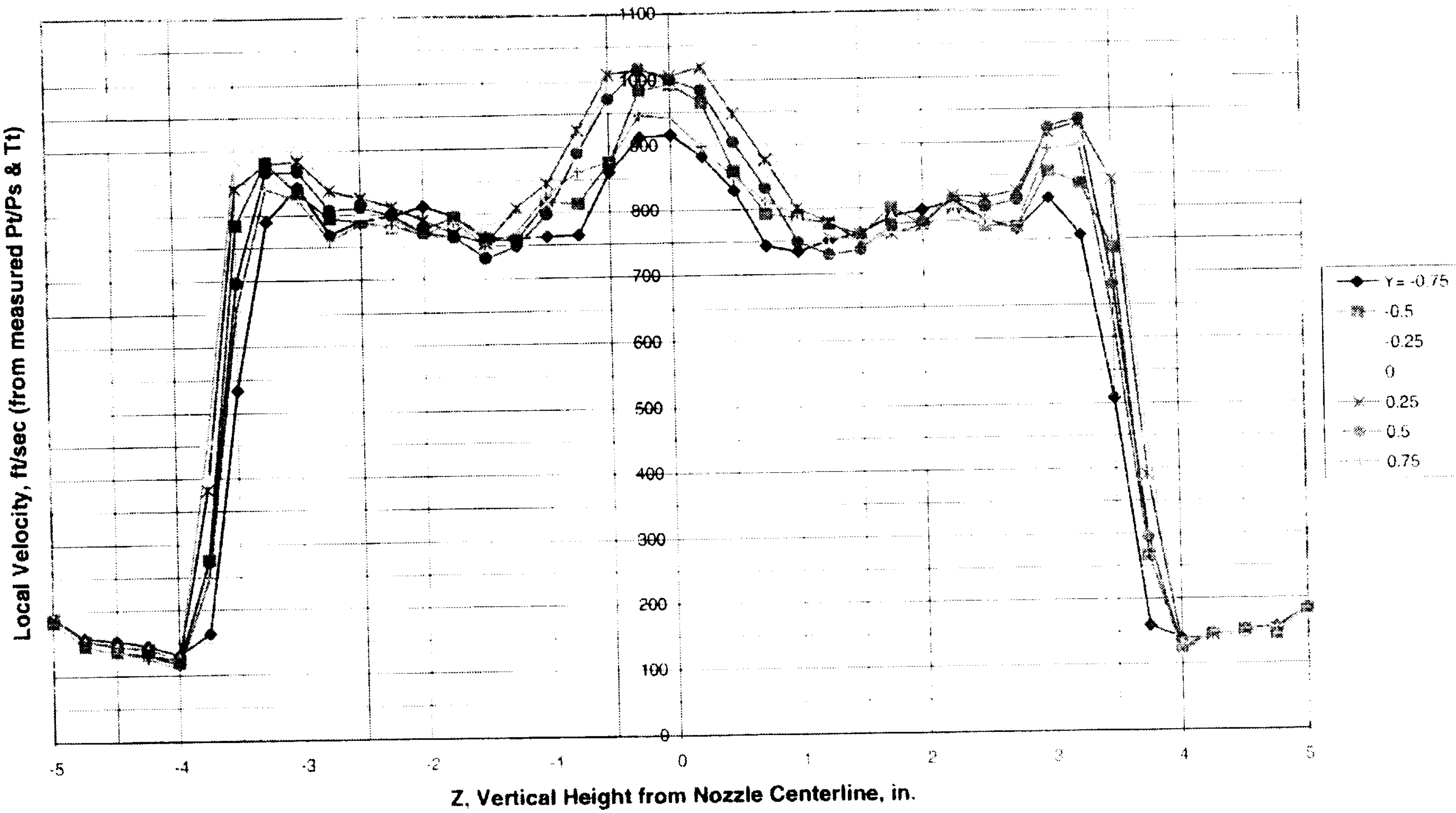
12L Baseline Mixer w/100% Nozzle Length, Velocity Survey at x/D=0.2, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V576



D. Baker, 6/19/97; File:XV576.XLS

FIGURE 18

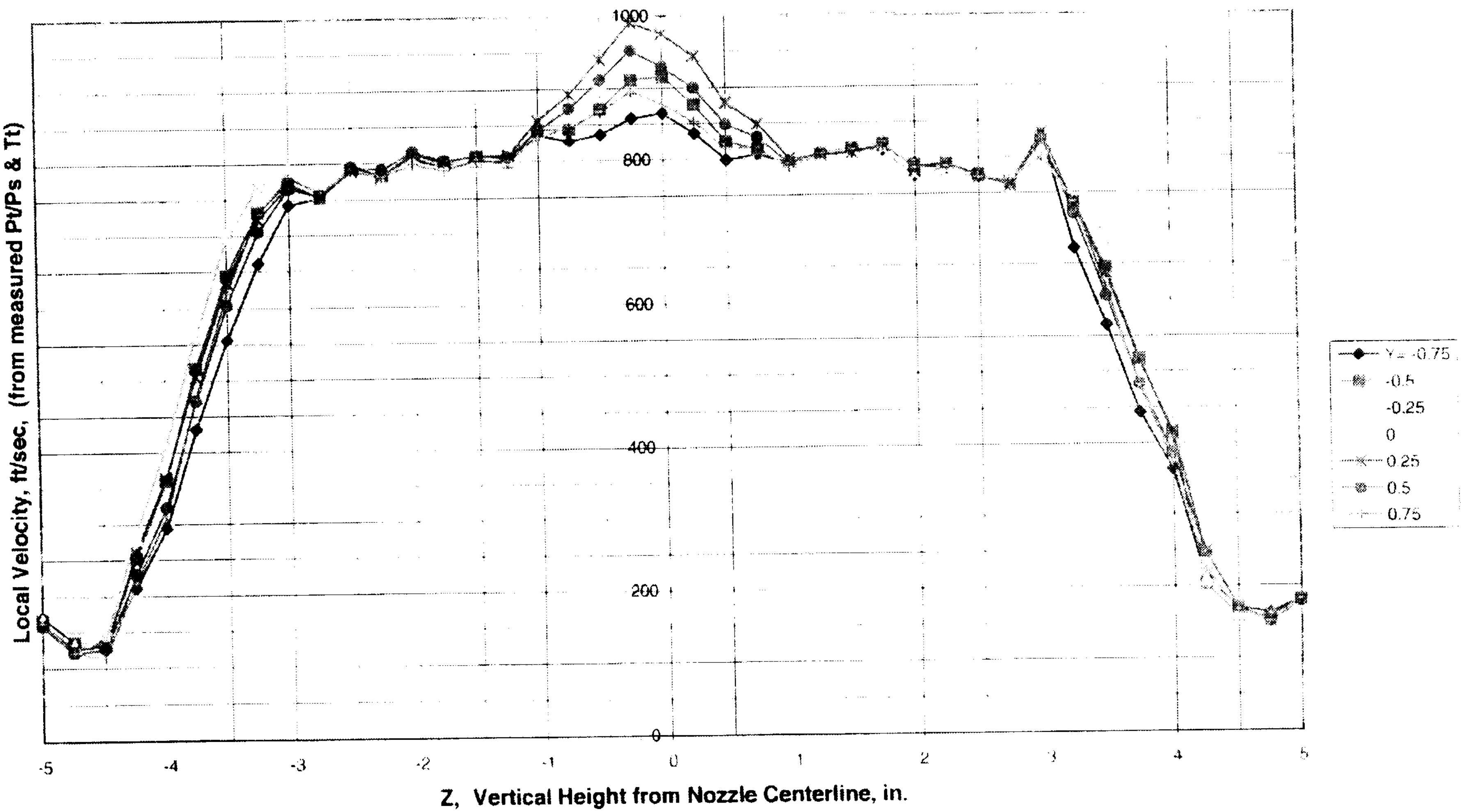
12P Internal Tongue - Velocity Distribution Across Plume at x/D=0.2, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, 0.2 Mn)FS - 1996 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg# V512



D. Baker 3/7/97 File: XXV512.XLS

FIGURE 19

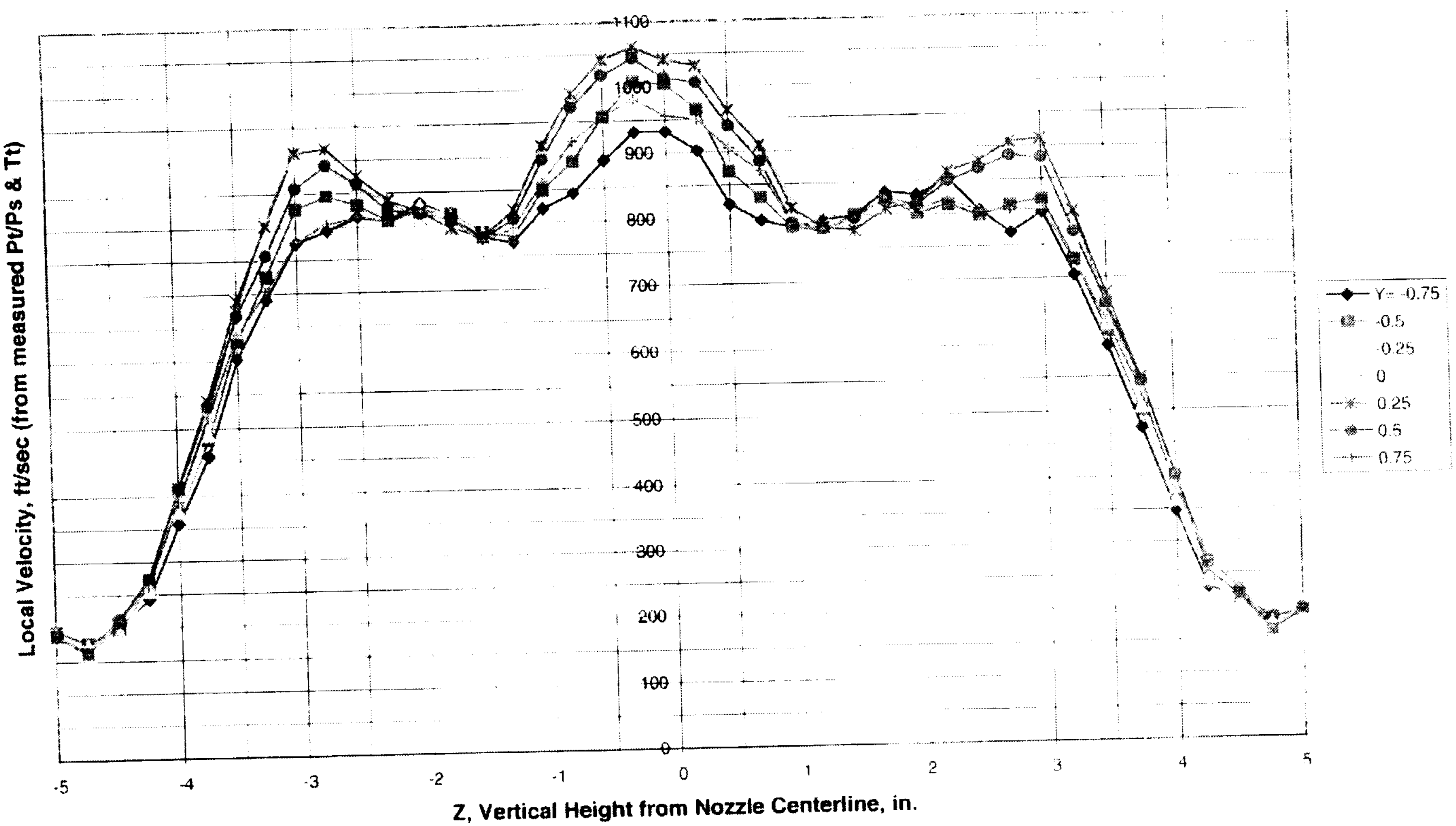
20L Deep Mixer - Velocity Distribution Across Plume at x/D=1.0, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, 0.2 Mn)FS - 1996 NASA-LeRC Acoustic Mixers/Plume Test Rdg# V552



D. Baker 3/5/97 File: XXV552.XLS

FIGURE 20

12 Lobe Baseline w/Cutouts - Velocity Distribution Across Plume at x/D= 1.0, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.35, 0.2 Mn)FS - 1996 NASA-LeRC Acoustic/Plume Mixer Tests, Rdg # V563



D. Baker 3/7/97 File: XXV563.XLS

Figure 21(a). Velocity Profiles at x/D=1.0, 20L Deep Scalloped Mixer (20DH) w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan 2.79 Tt)core/Tt)fan, Rdg# V541 - 1996 NASA-LeRC Acoustic Mixer/Plume Test Rdg# V541

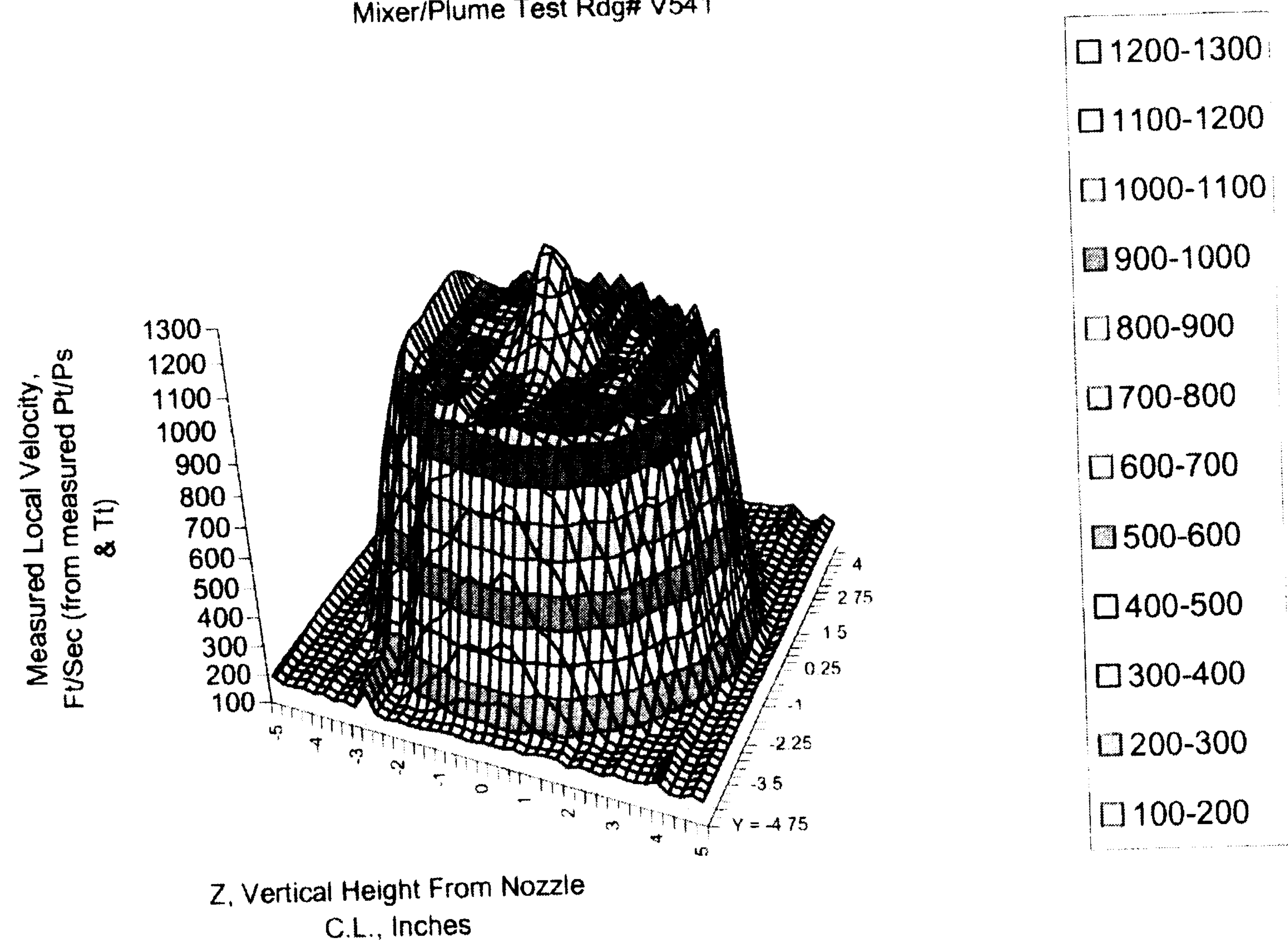
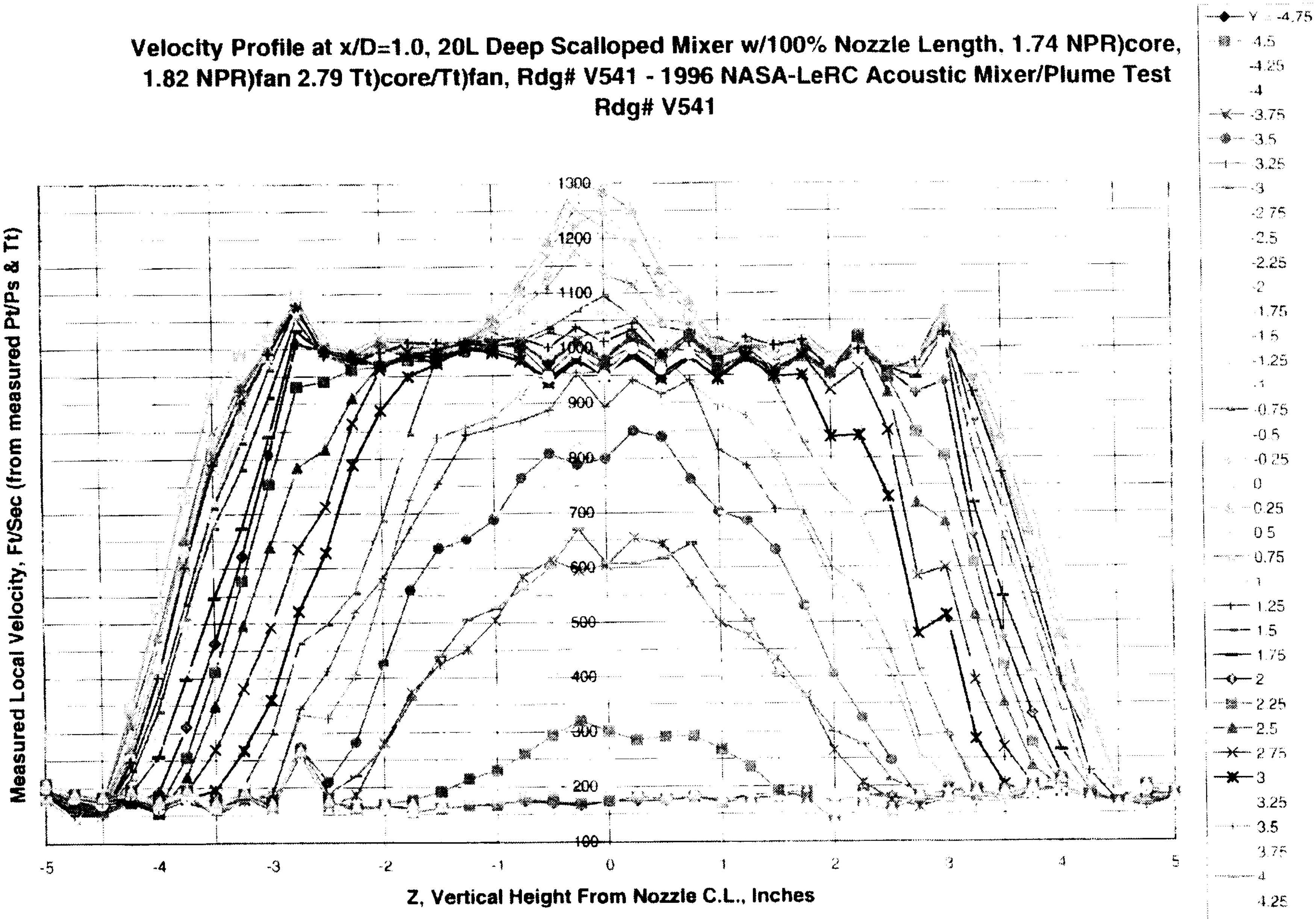


FIGURE 21(b)

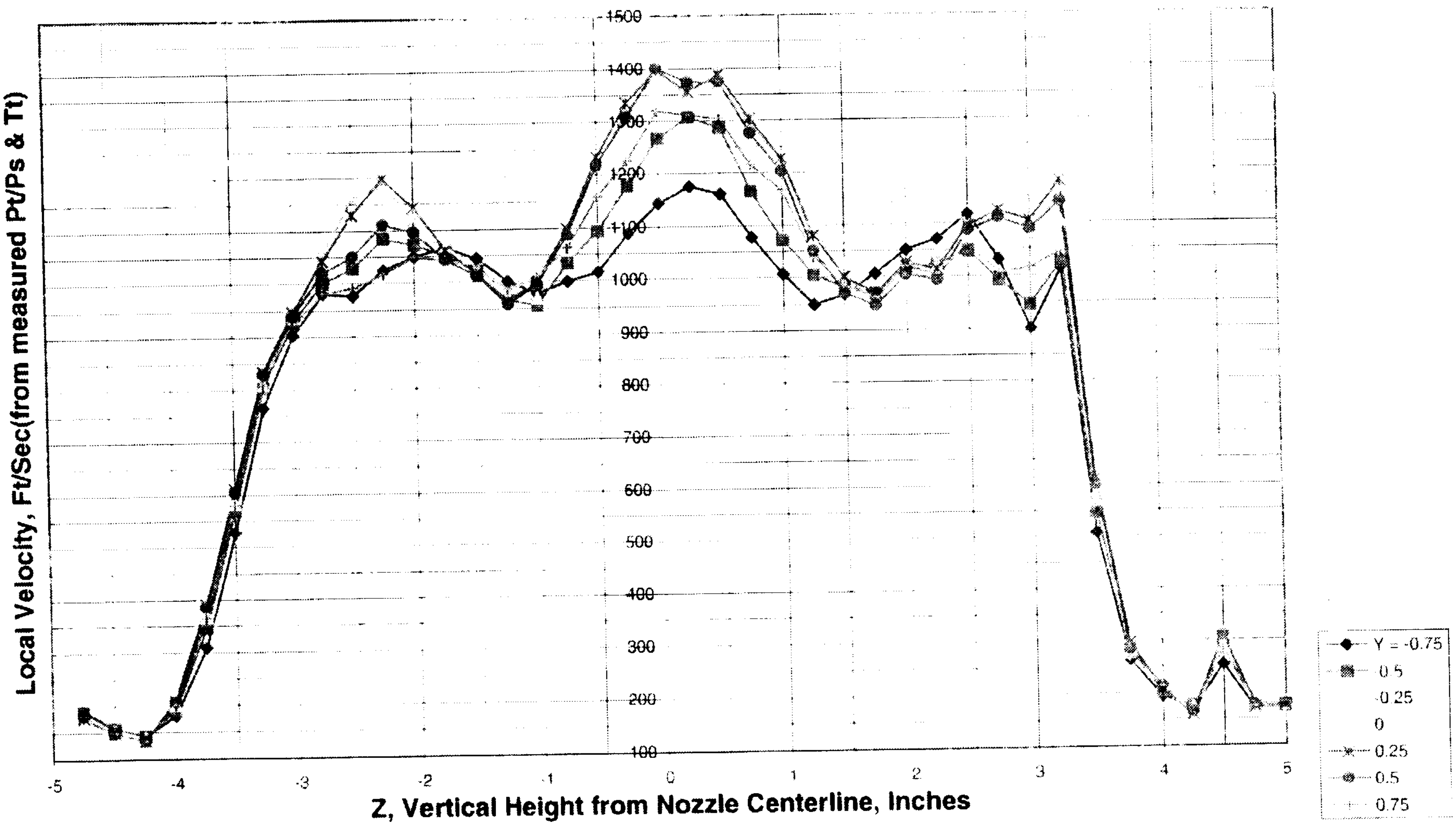
Velocity Profile at x/D=1.0, 20L Deep Scalloped Mixer w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan 2.79 Tt)core/Tt)fan, Rdg# V541 - 1996 NASA-LeRC Acoustic Mixer/Plume Test Rdg# V541



D. Baker, 6/16/97. File:XV541.XLS

FIGURE 22

12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=1.0, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1966 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V599



D. Baker, 6/18/97: File: XV599.XLS

Figure 23(a). 12L Baseline Mixer (12CL) w/100% Nozzle Length, Velocity Survey at x/D=1.0, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V577

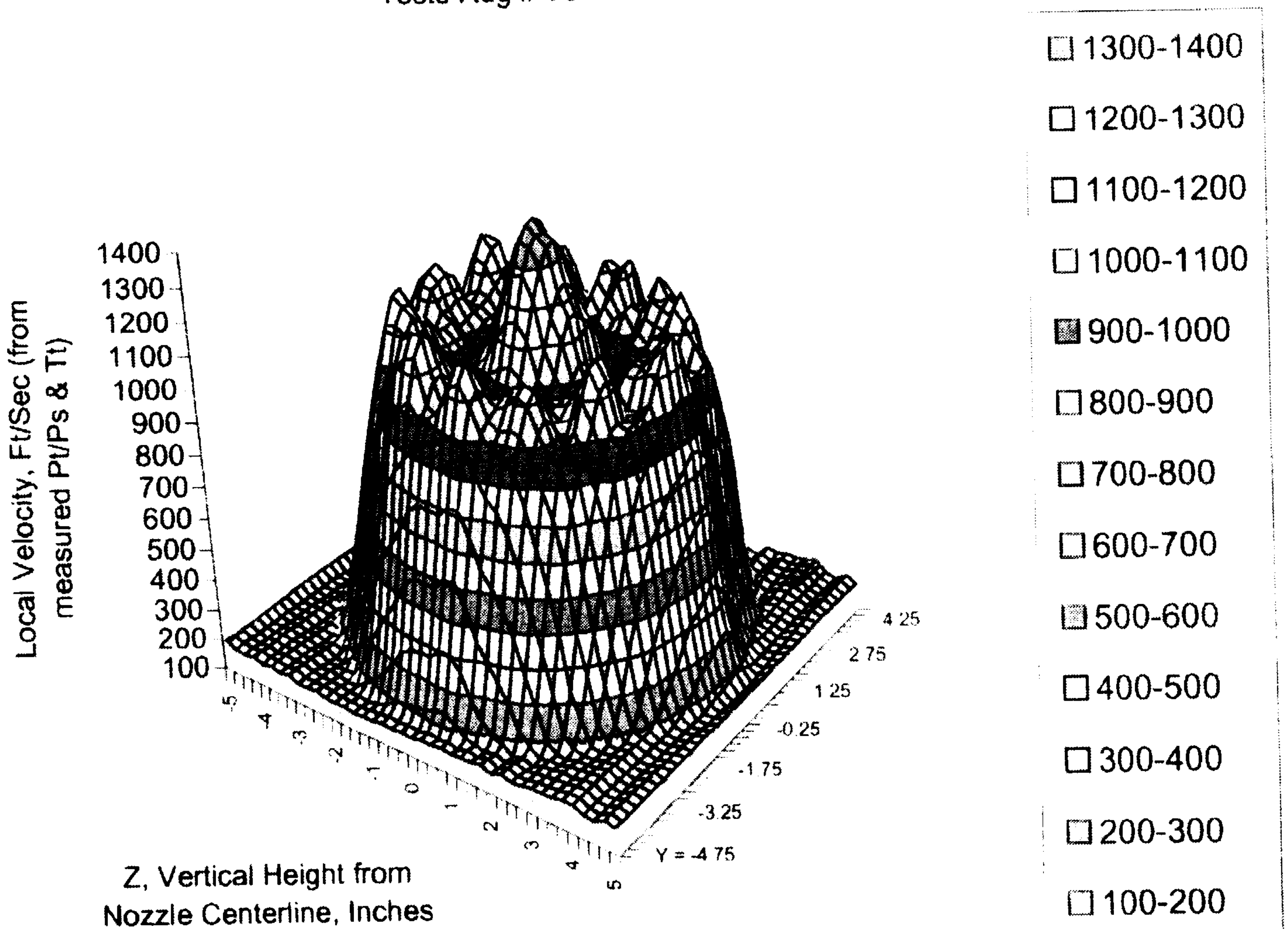
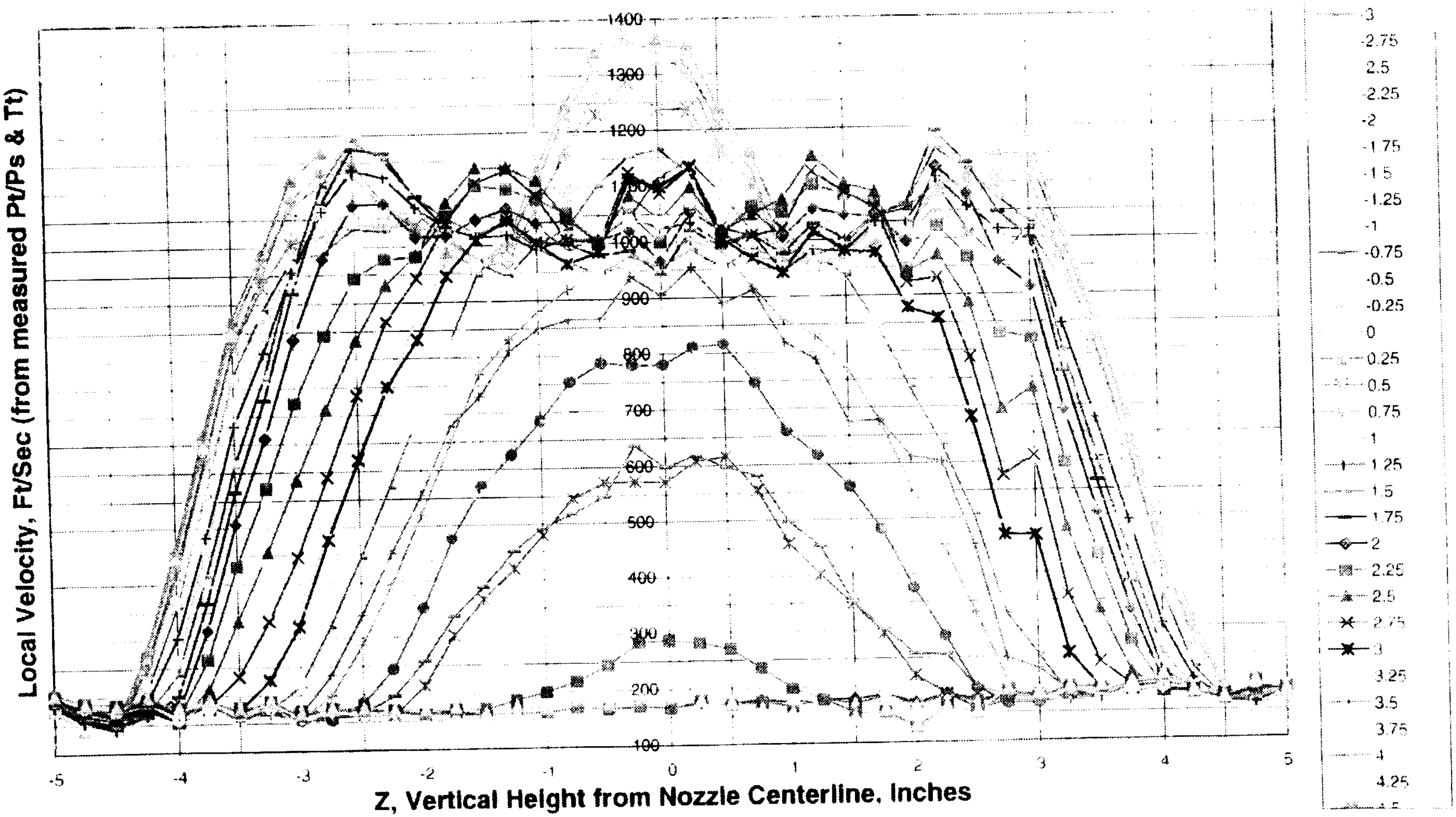


FIGURE 23 (b)

12L Baseline Mixer w/100% Nozzle Length, Velocity Survey at x/D=1.0, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V577



D. Baker, 6/19/97: File: XV577.XLS

Figure 24(a). 12L Baseline Mixer with Cutouts (12CL), 100% Nozzle Length, Velocity Survey @ x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V574

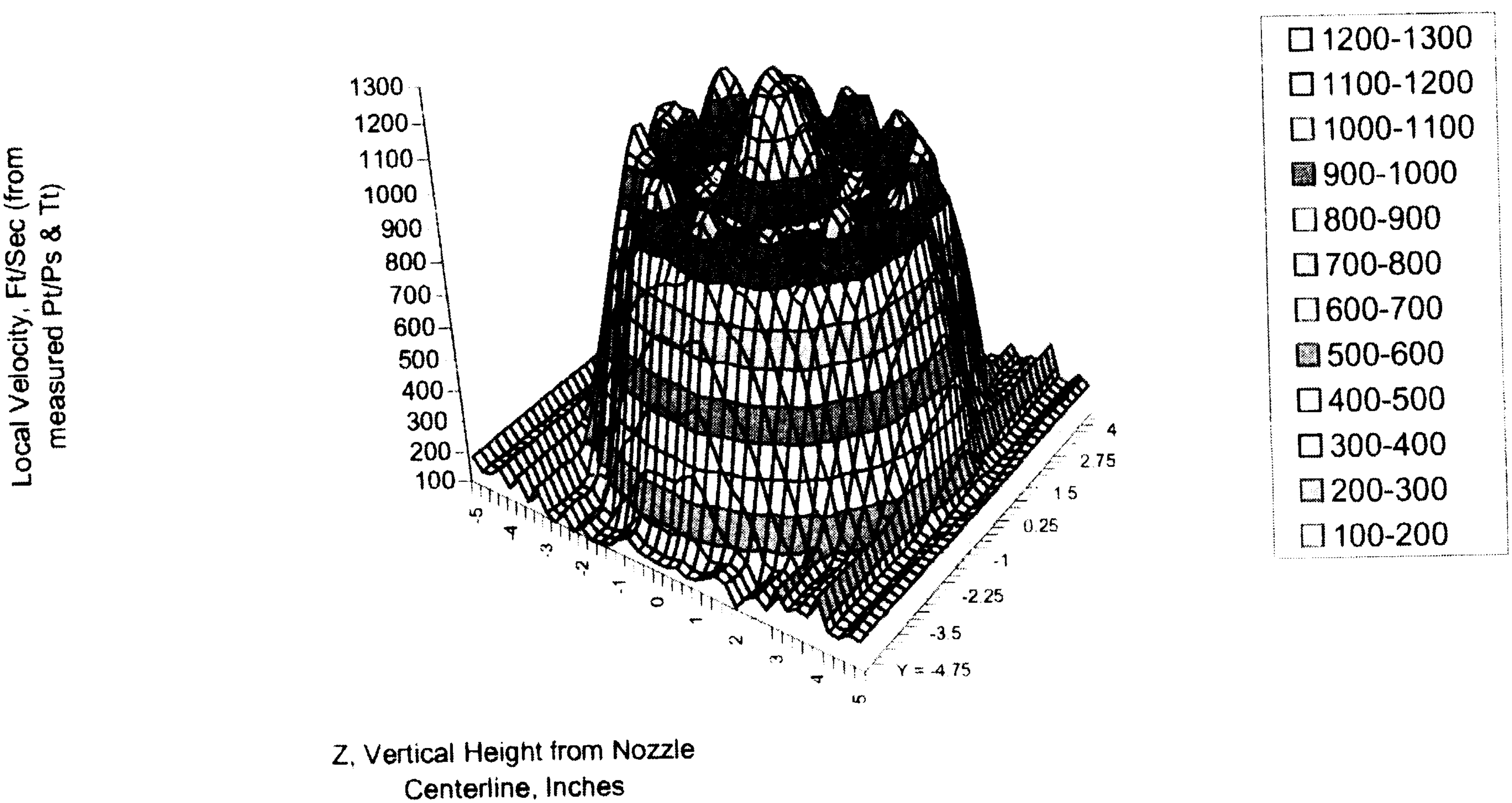
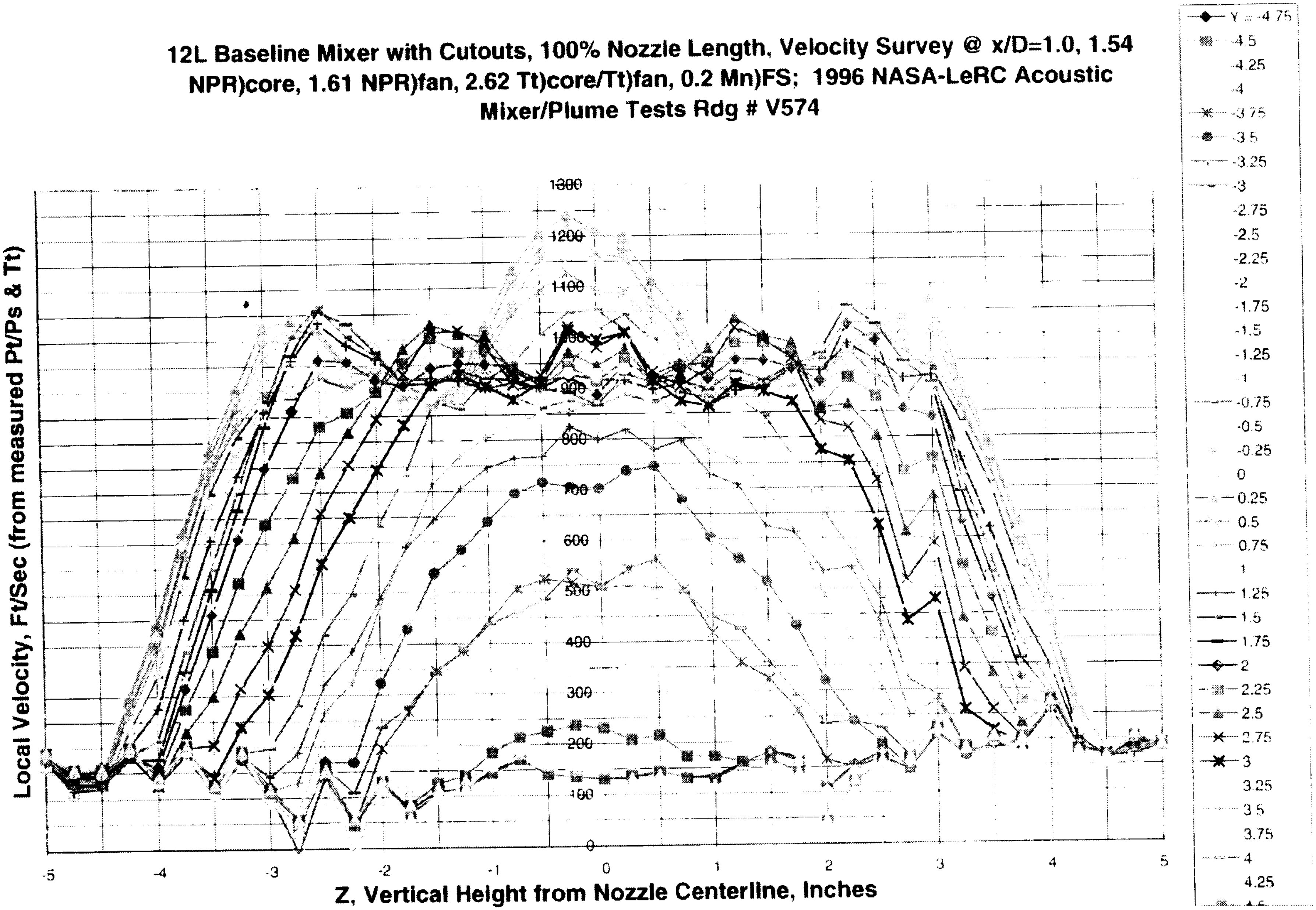


FIGURE 24 (b)

12L Baseline Mixer with Cutouts, 100% Nozzle Length, Velocity Survey @ x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V574



D. Baker 7/16/97 FILE: XV 574.xls

Figure 25(a). 20L Deep Mixer (20DH), 100% Nozzle Length, Velocity Survey at x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic/PLume Tests
Rdg# V561

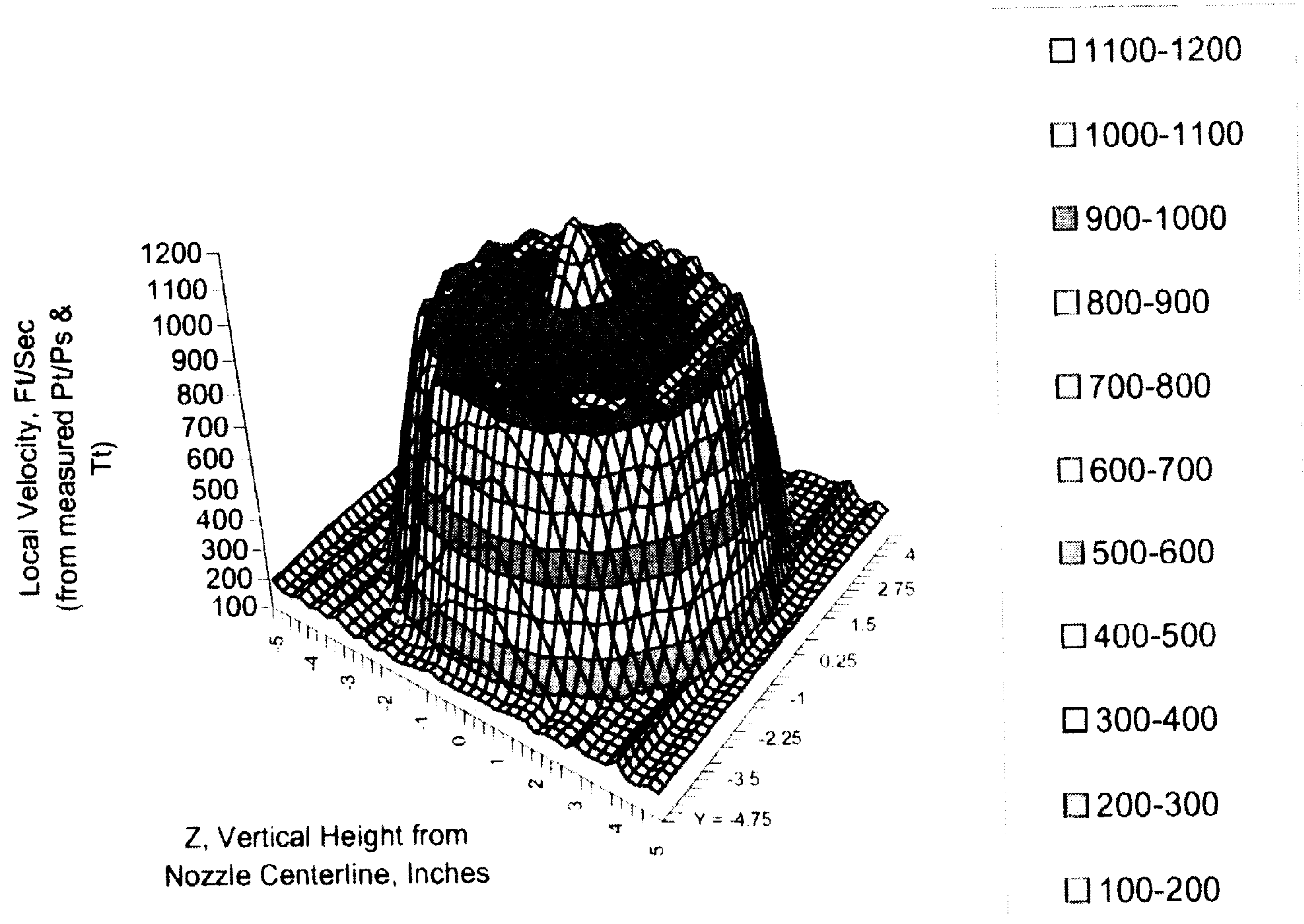
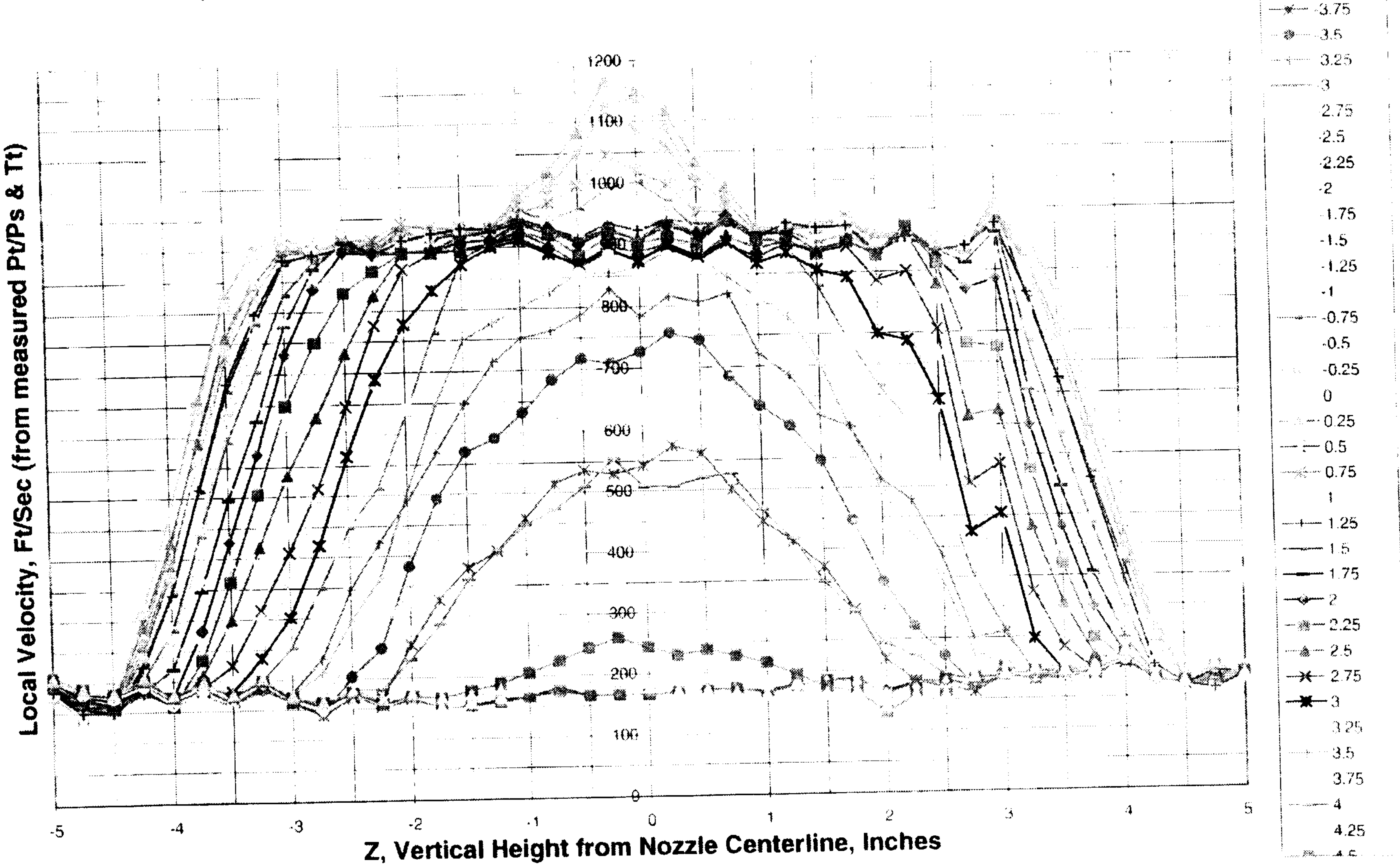


FIGURE 25(b)

20L Deep Mixer, 100% Nozzle Length, Velocity Survey at x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic/PLume Tests Rdg# V561



D. Baker, 7/11/97. FILE: XV561.xls

Figure 26(a). 20L Deep Mixer (20DH), 100% Nozzle Length, Velocity Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V560

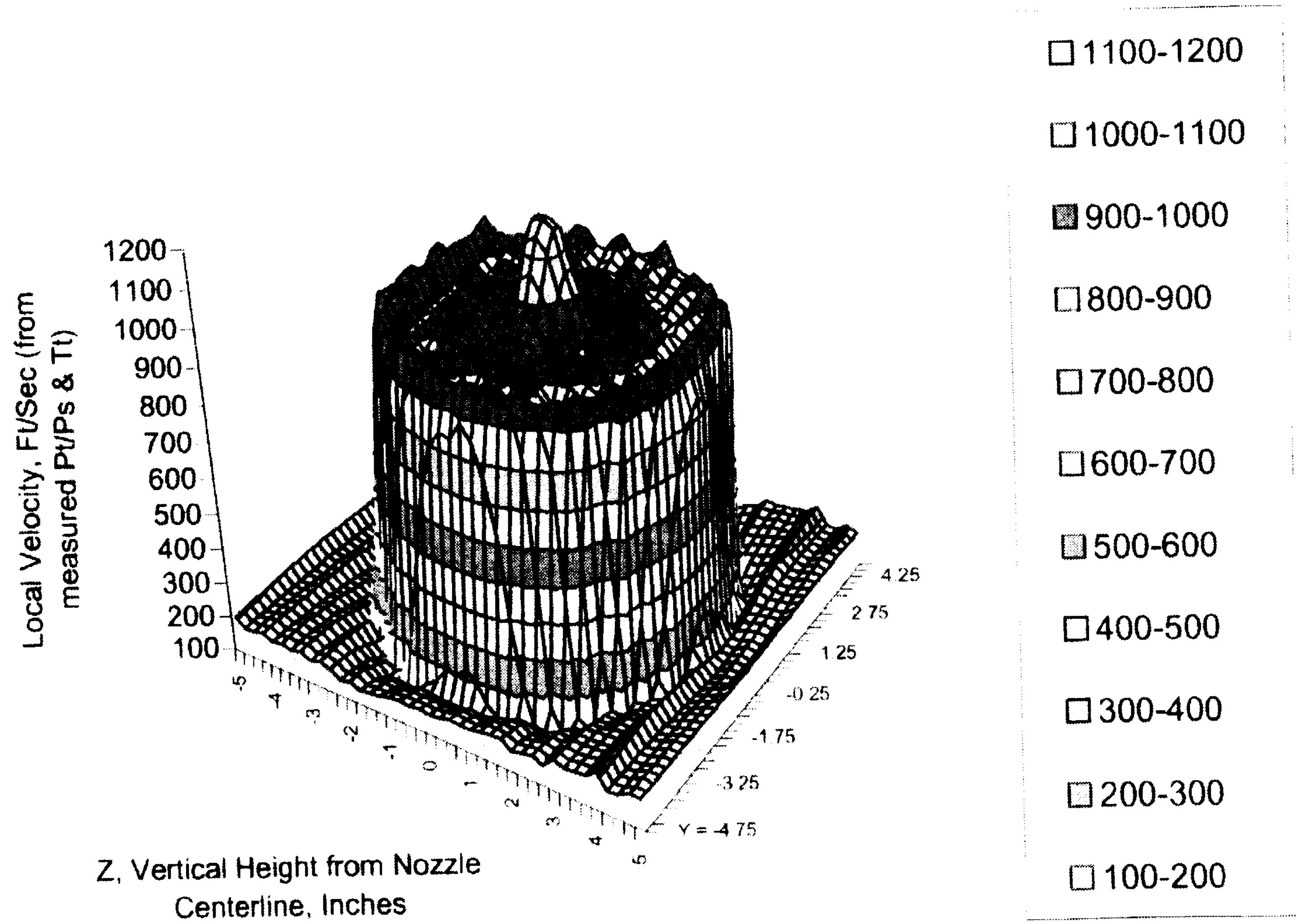
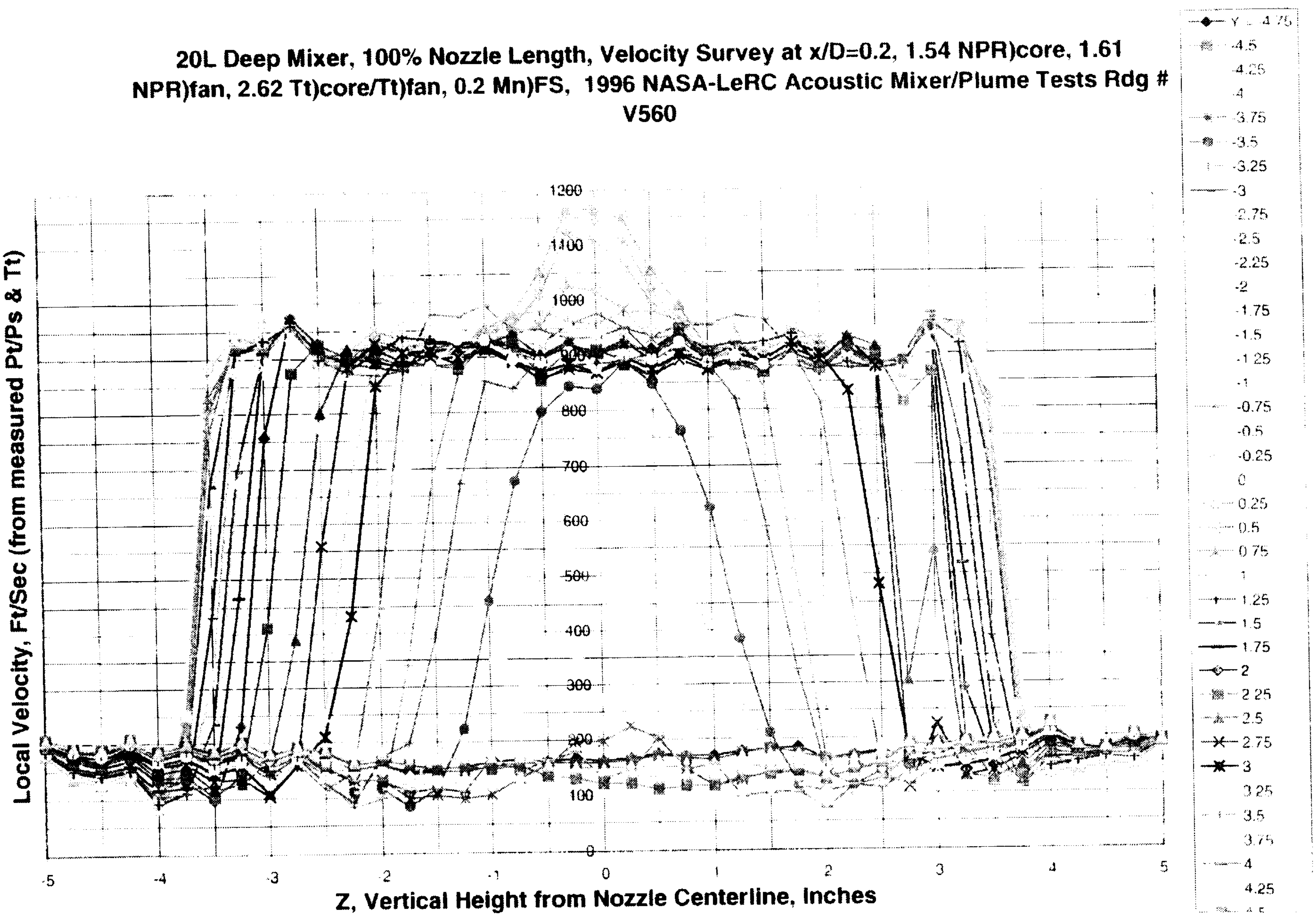


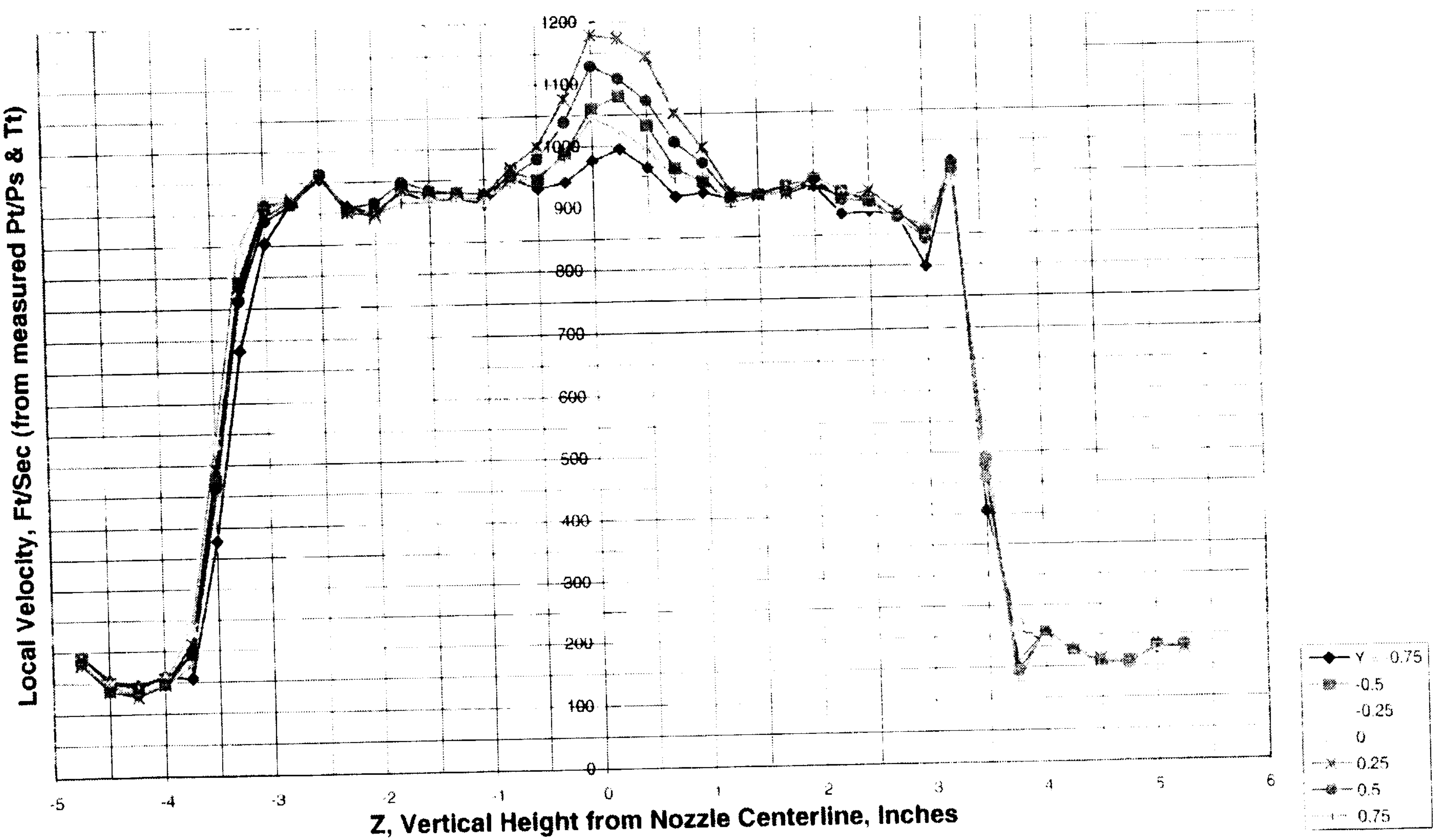
FIGURE 26(b)



D. Baker, 7/9/97; FILE: xv560.xls

FIGURE 27

20L Deep Mixer, 100% Nozzle Length, Velocity Survey at x/D=0.5, 1.54 NPR)core, 1.61NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V559



D. Baker 7/11/97; FILE: xv559.xls

Figure 28(a). 20L Deep Mixer (20DH), 100% Nozzle Length, Velocity Survey at x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS. 1996 NASA-LeRC Acoustic/PLume Tests
Rdg# V561

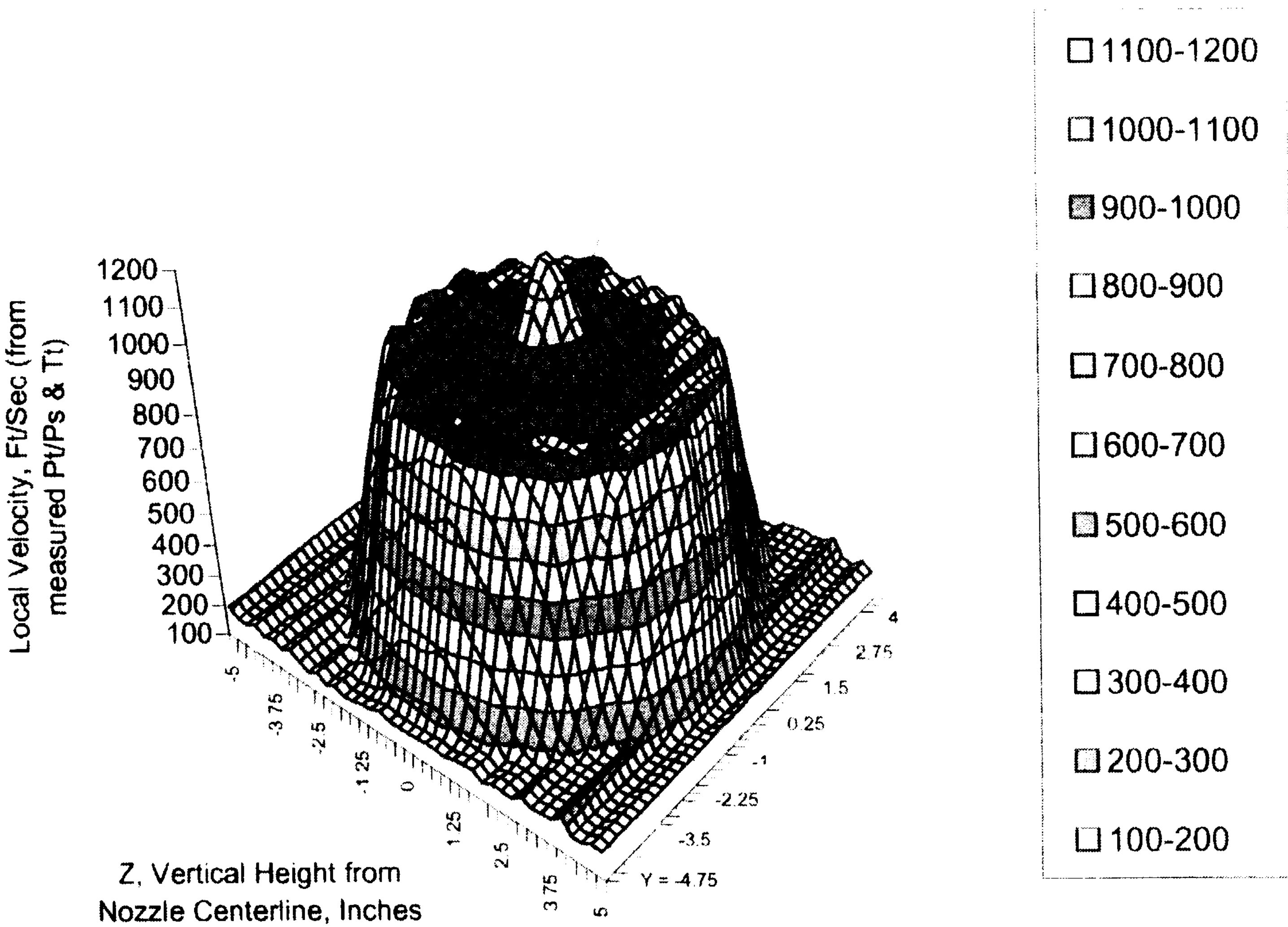
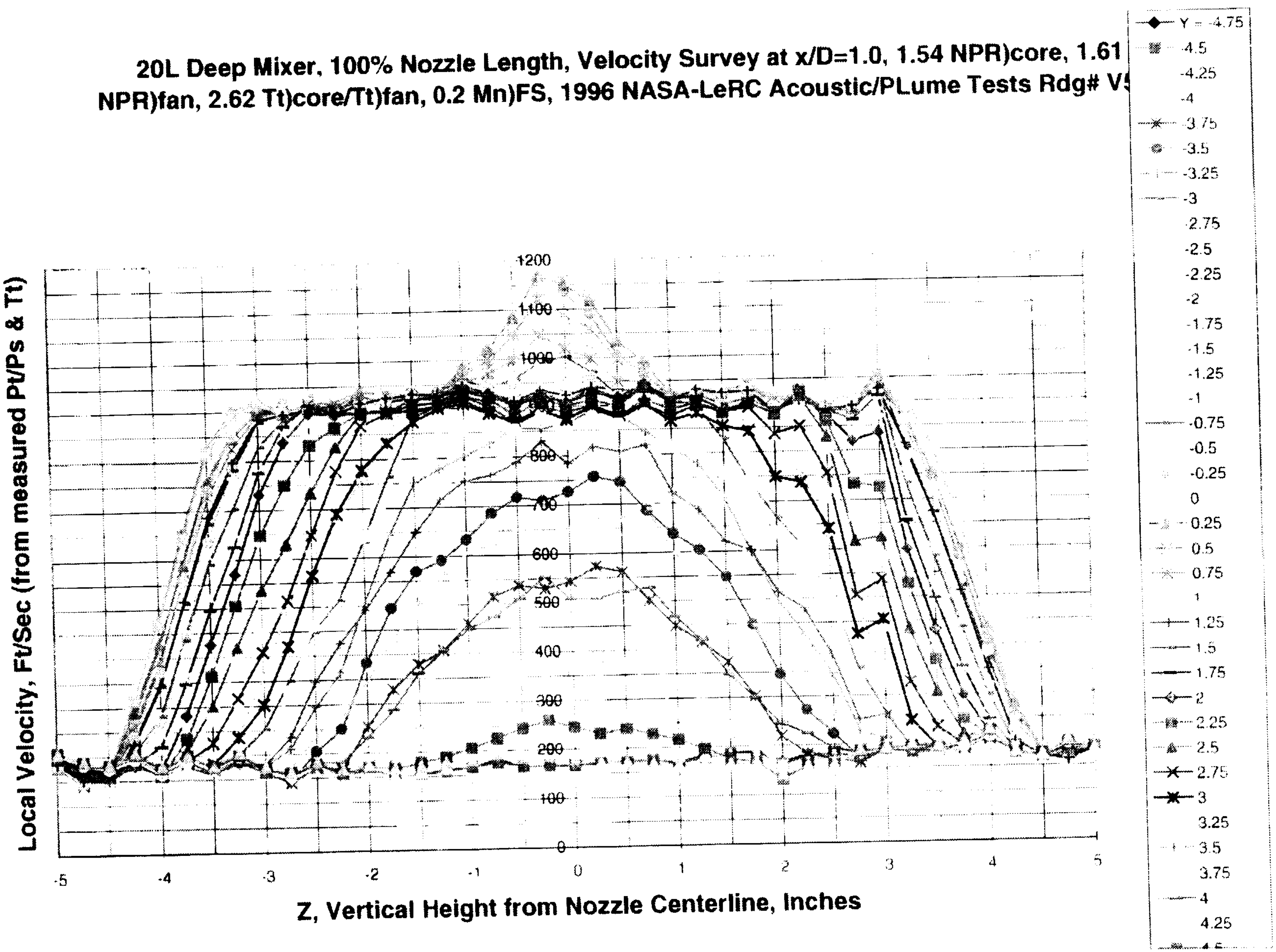


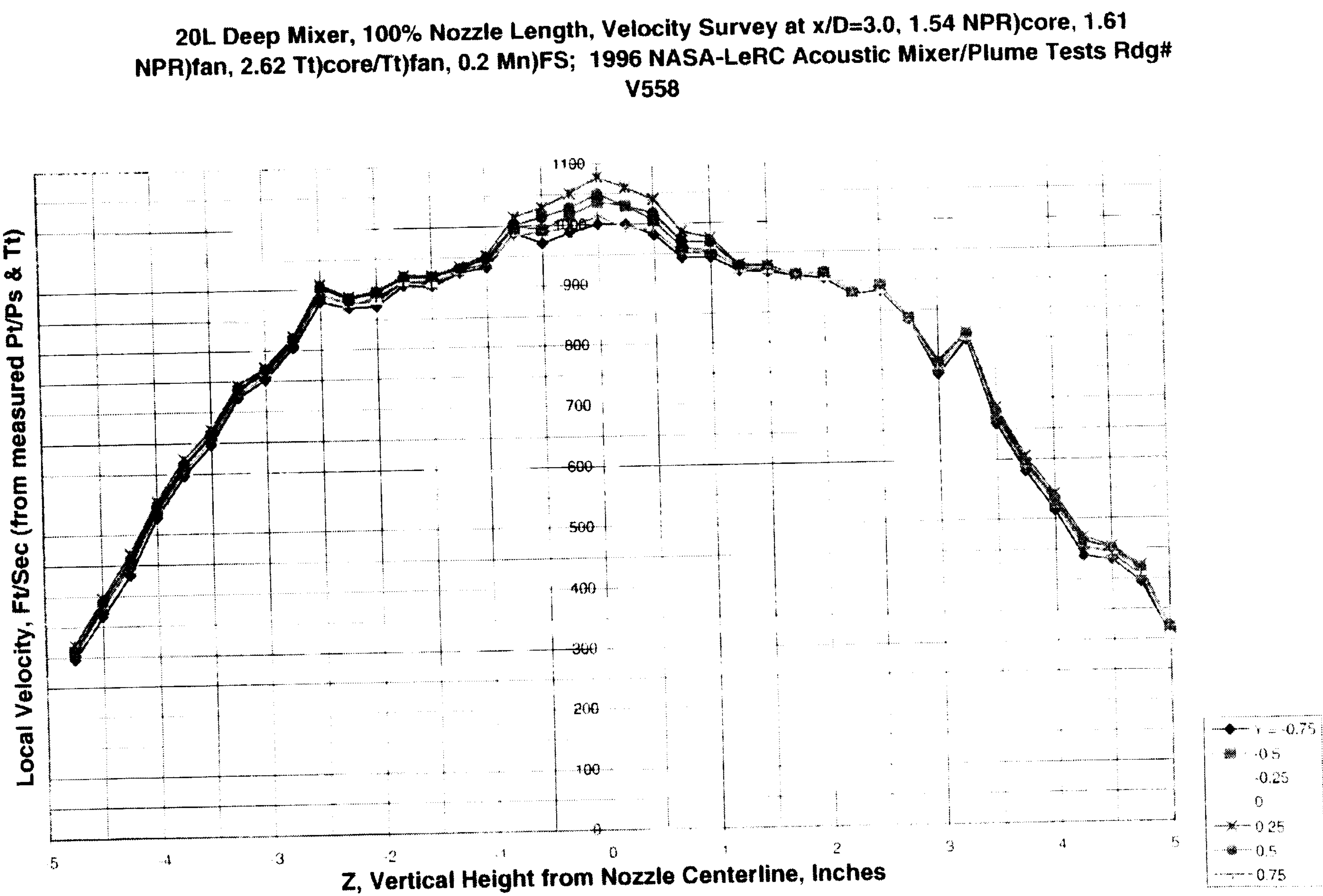
FIGURE 28 (b)

20L Deep Mixer, 100% Nozzle Length, Velocity Survey at x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic/PLume Tests Rdg# V5



D. Baker, 7/11/97, FILE: XV561.xls

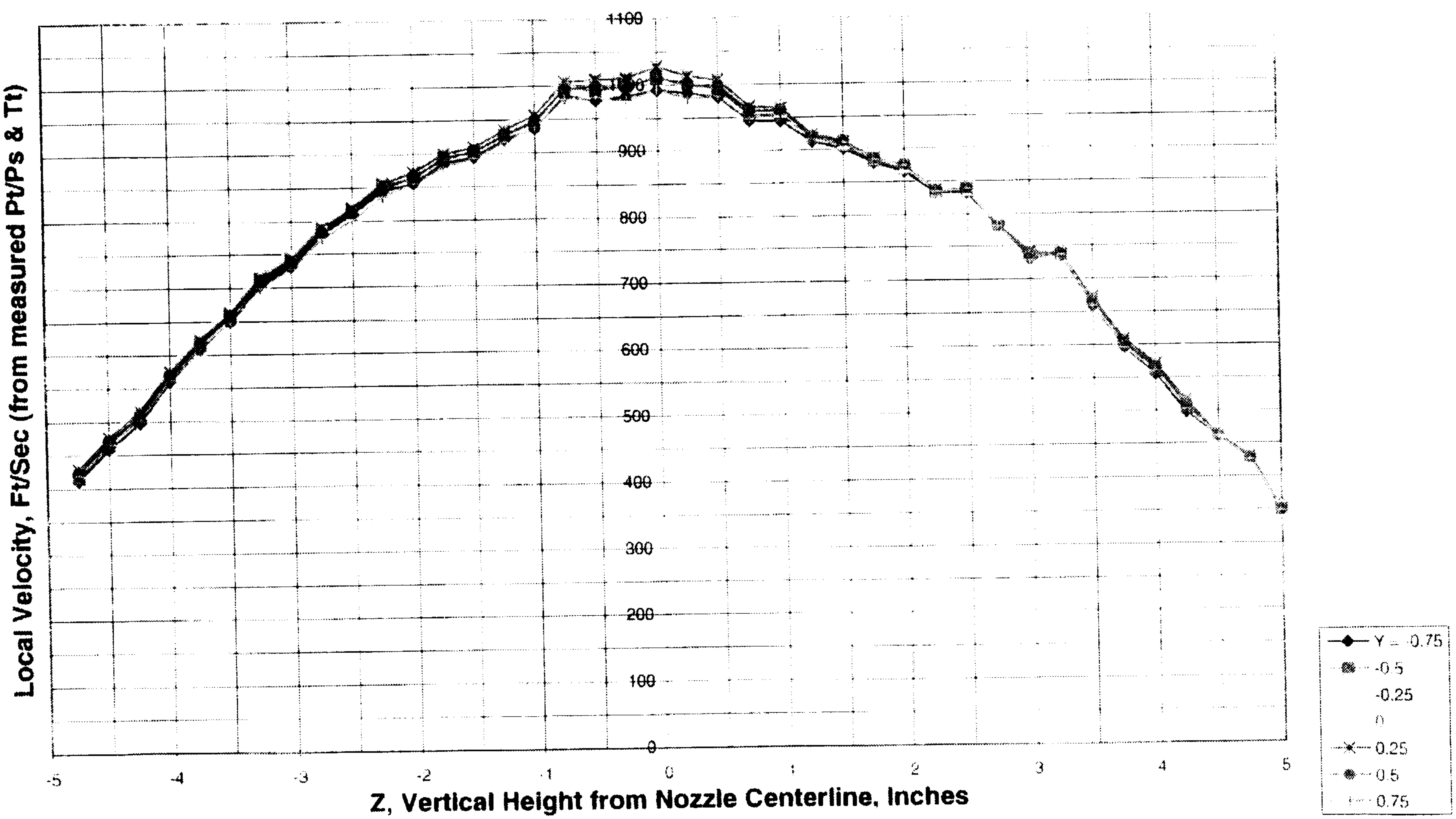
FIGURE 29



D. Baker, 7/15/97: FILE: XV558.xls

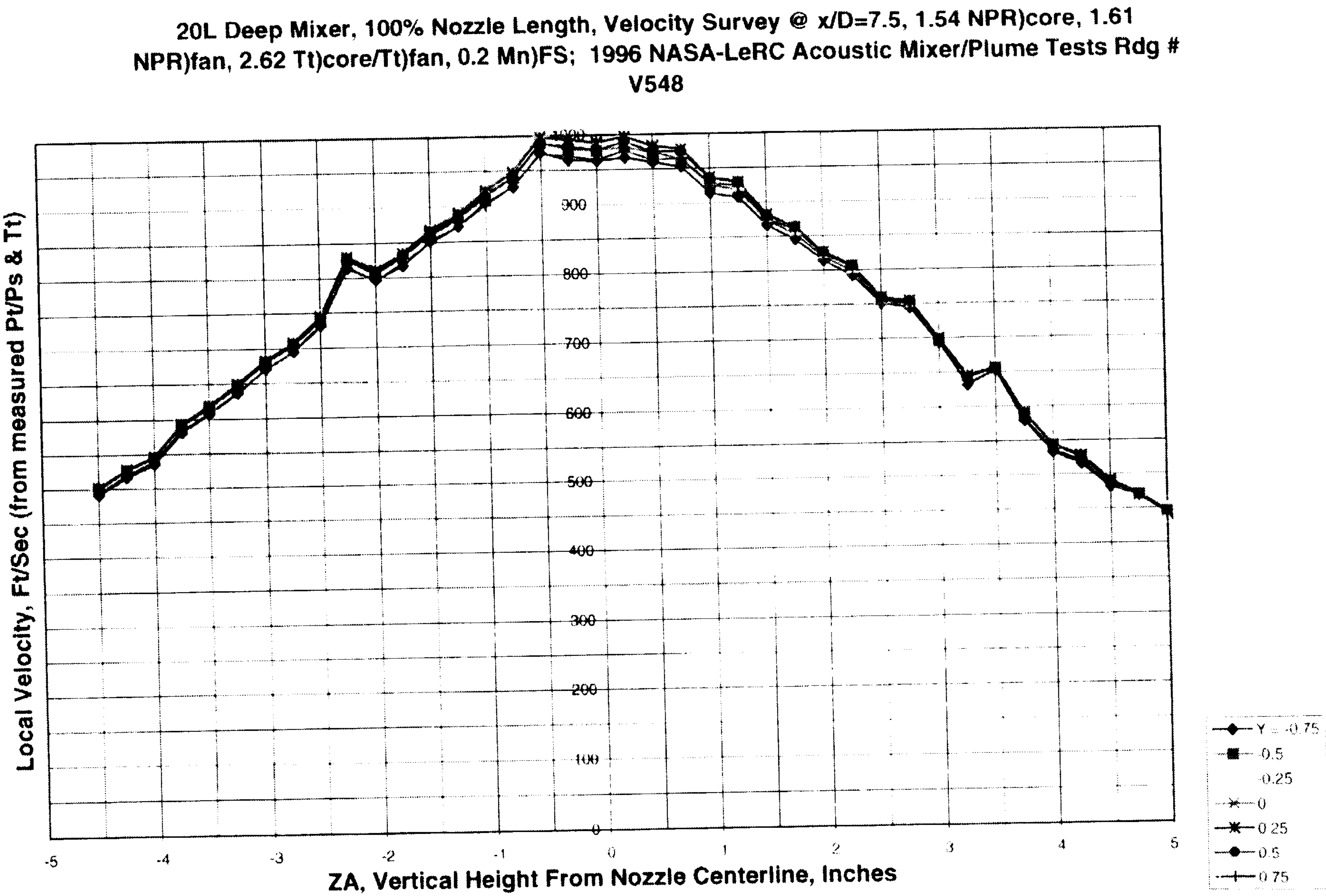
FIGURE 30

20L Deep Mixer, 100% Nozzle Length, Velocity Survey at x/D=5.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V549



D. Baker, 7/15/97; FILE: XV549.xls

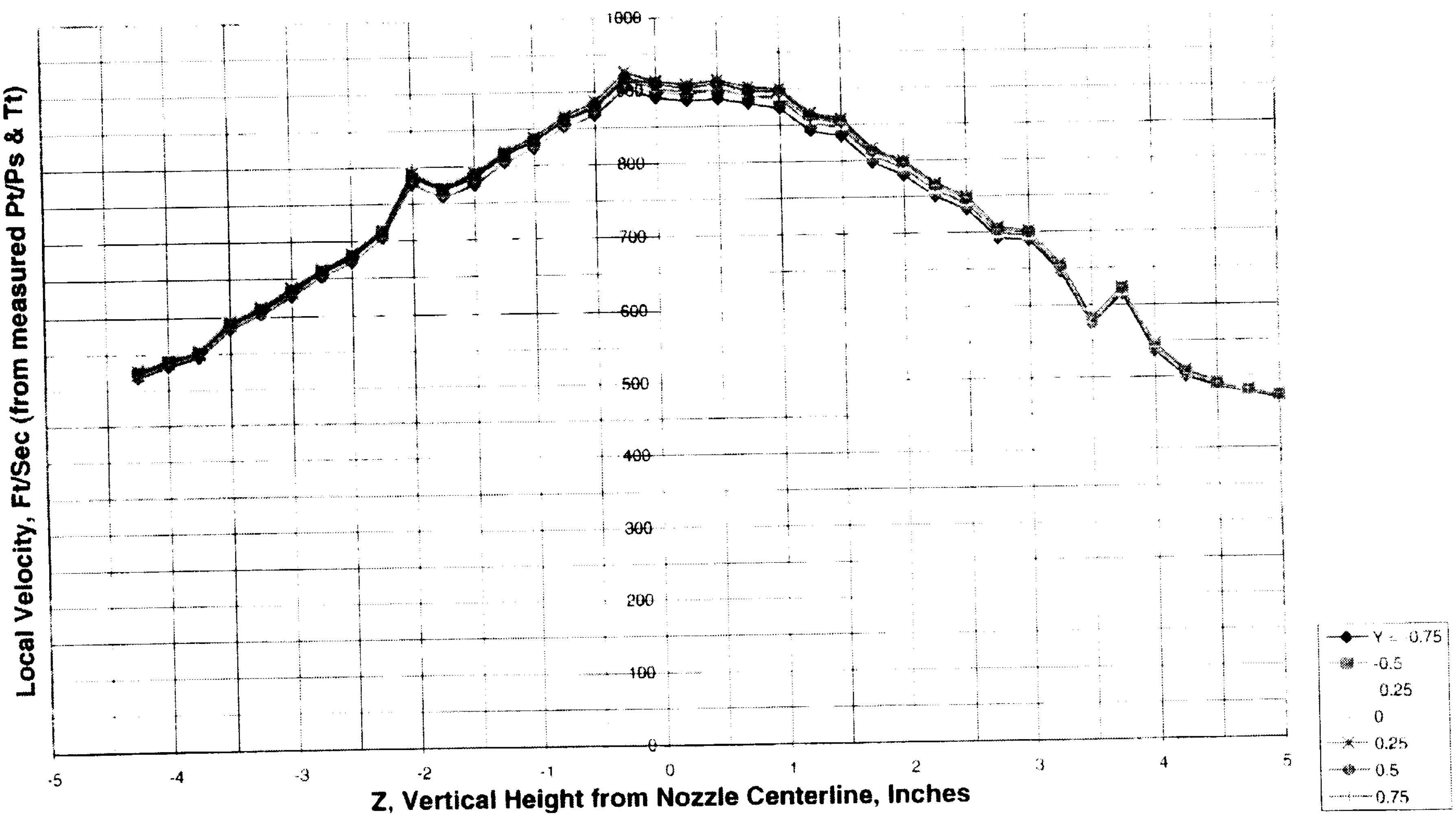
FIGURE 31



D. Baker 7/15/97; FILE: XV548.xls

FIGURE 32

20L Deep Mixer, 100% Nozzle Length, Velocity Survey @ x/D=10.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V547



D. Baker 7/15/97; FILE:XV547.xls

Figure 33(a). 12L Baseline with Cutouts (12CL), 100% Nozzle Length, Velocity Survey @ x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V575

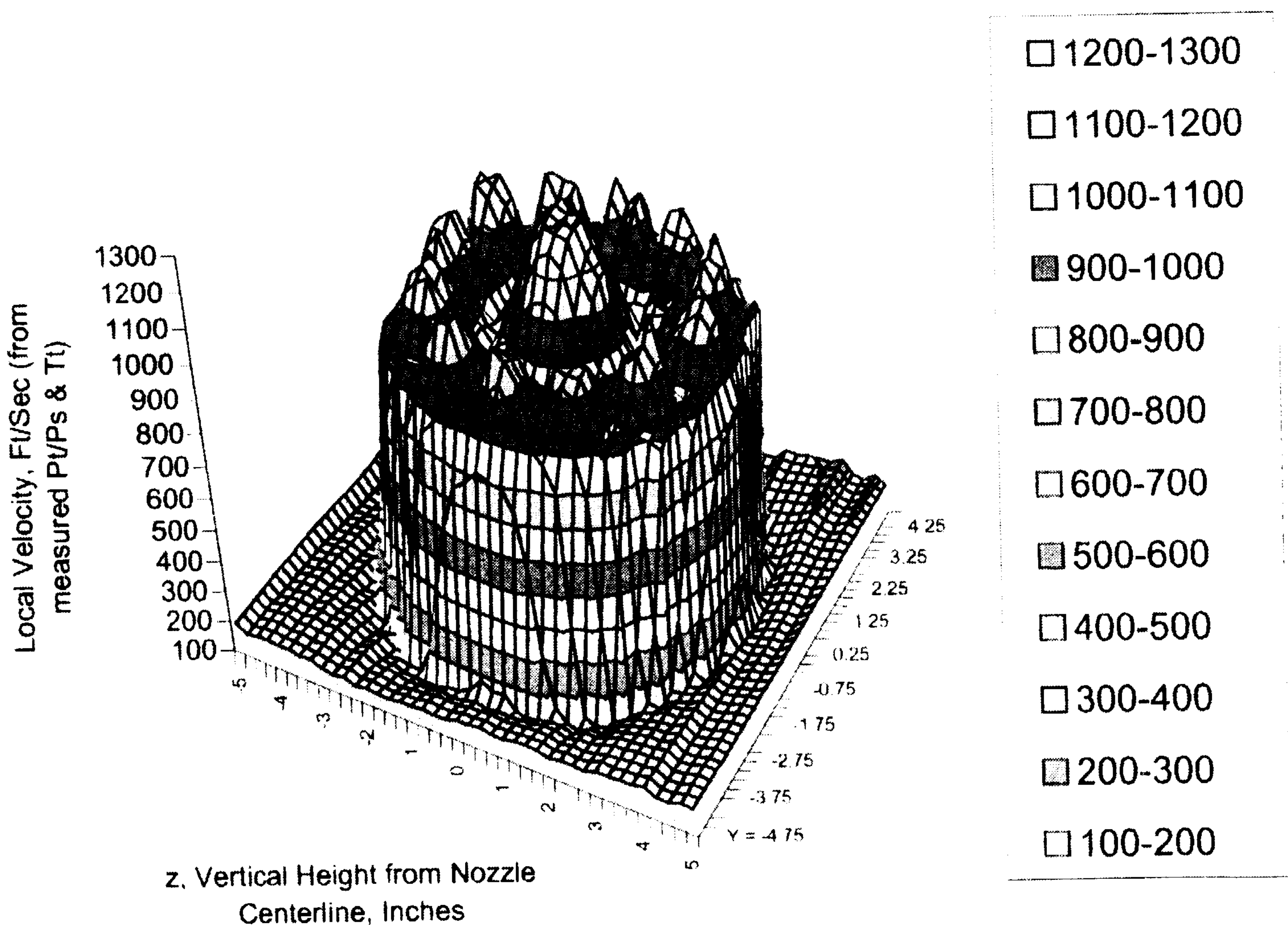


FIGURE 33 (b)

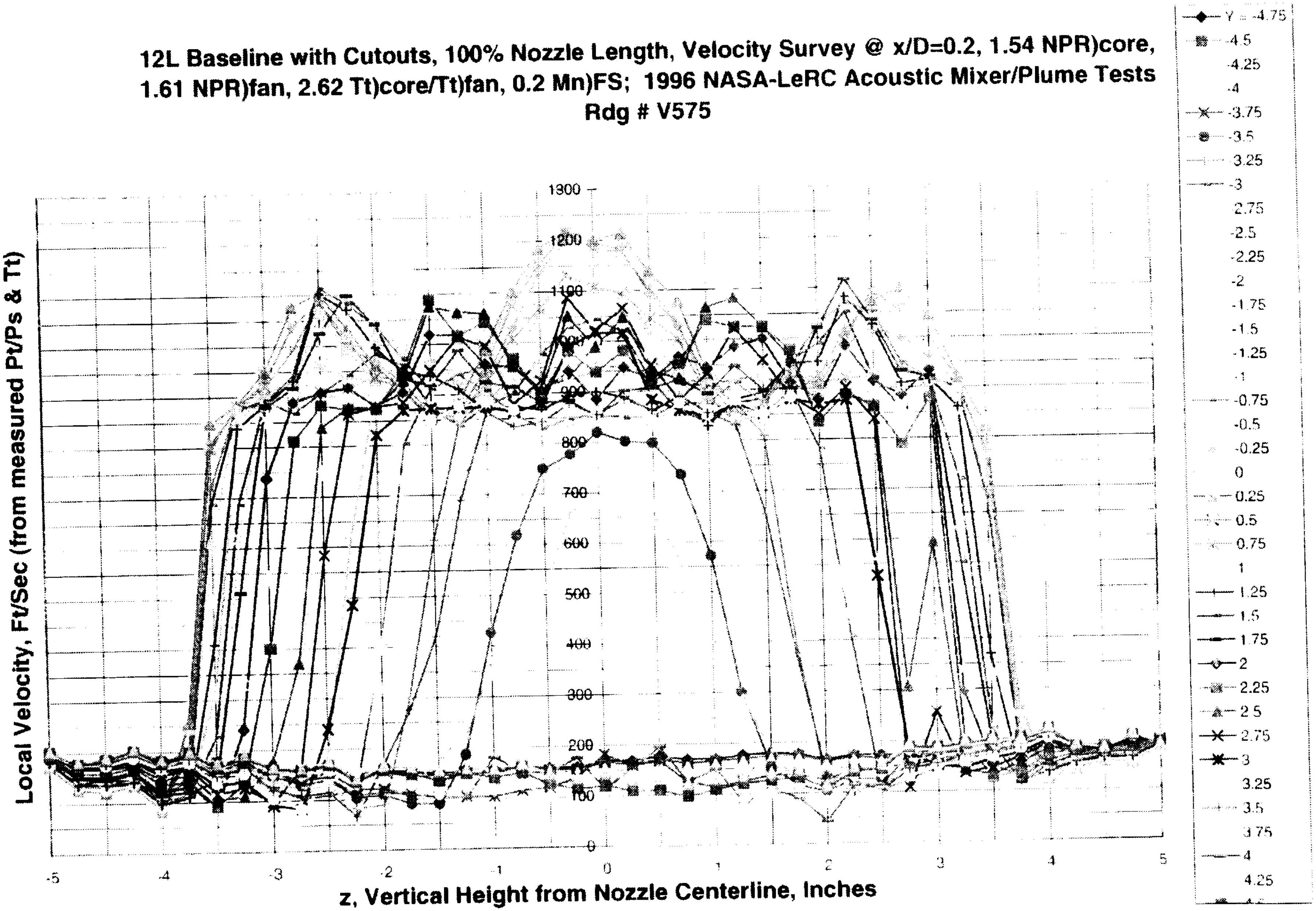


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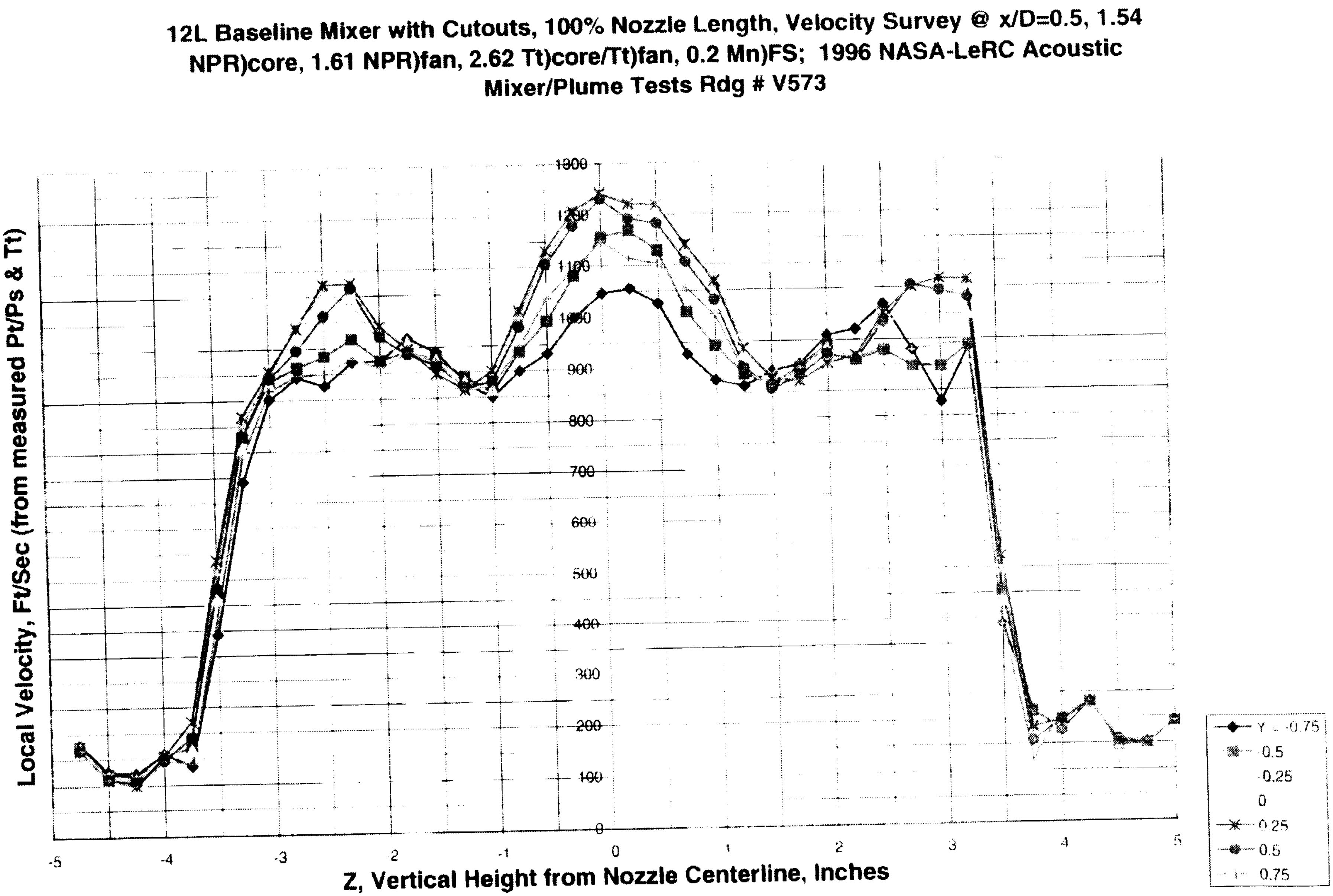
FIGURE 34



D. Baker 7/16/97 FILE: XV573.xls

Figure 35(a). 12L Baseline Mixer with Cutouts, 100% Nozzle Length, Velocity Survey @ x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V574

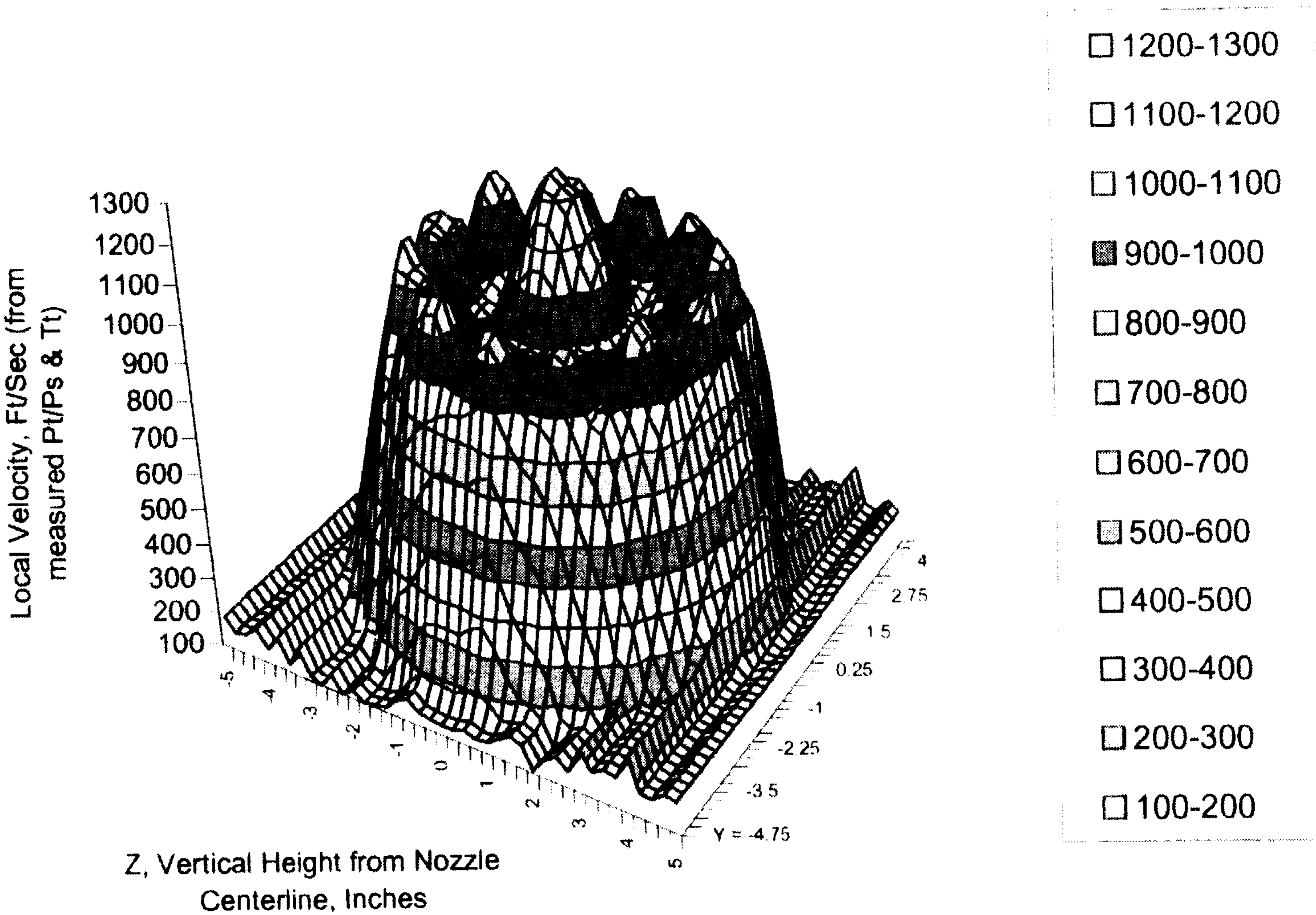
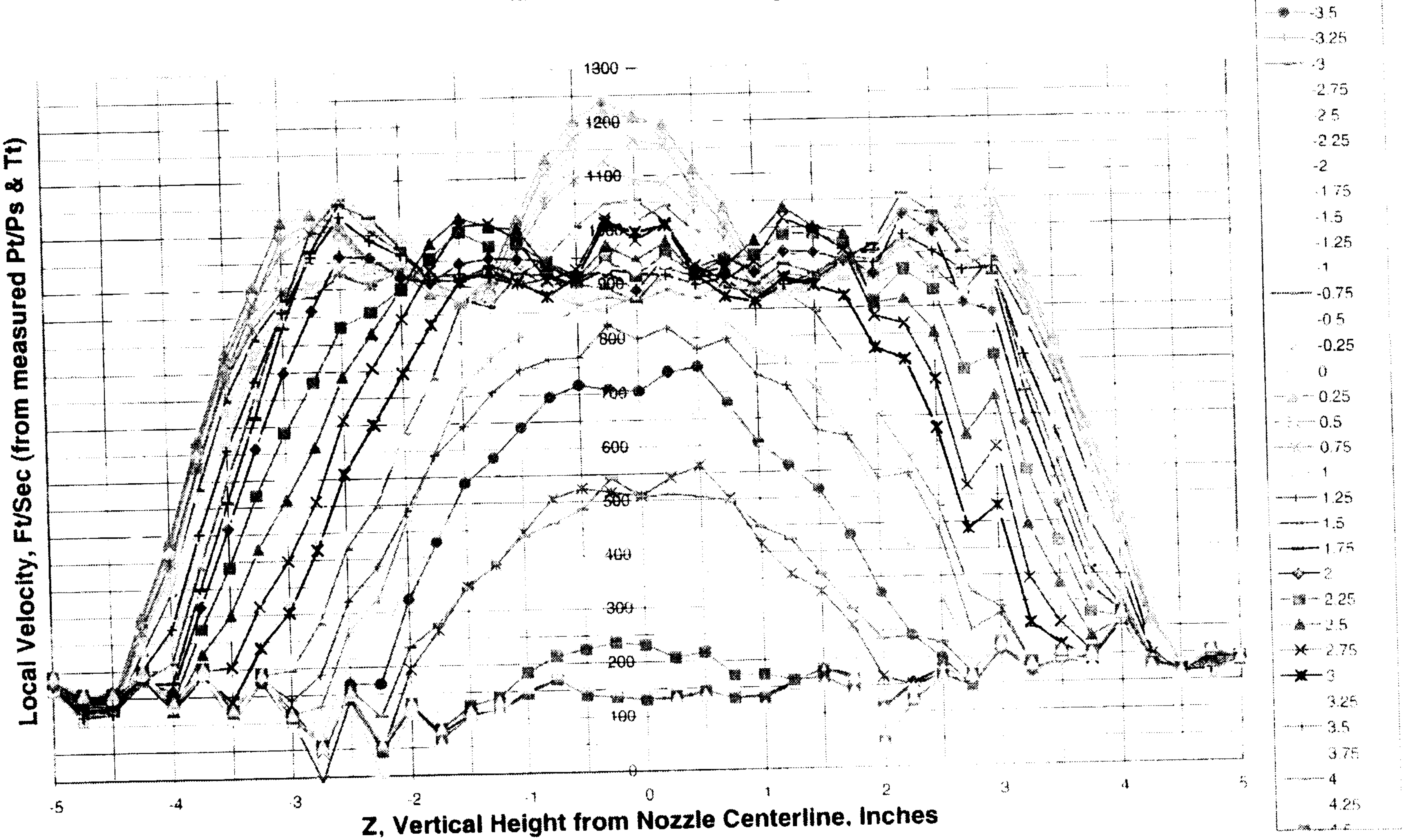


FIGURE 35 (b)

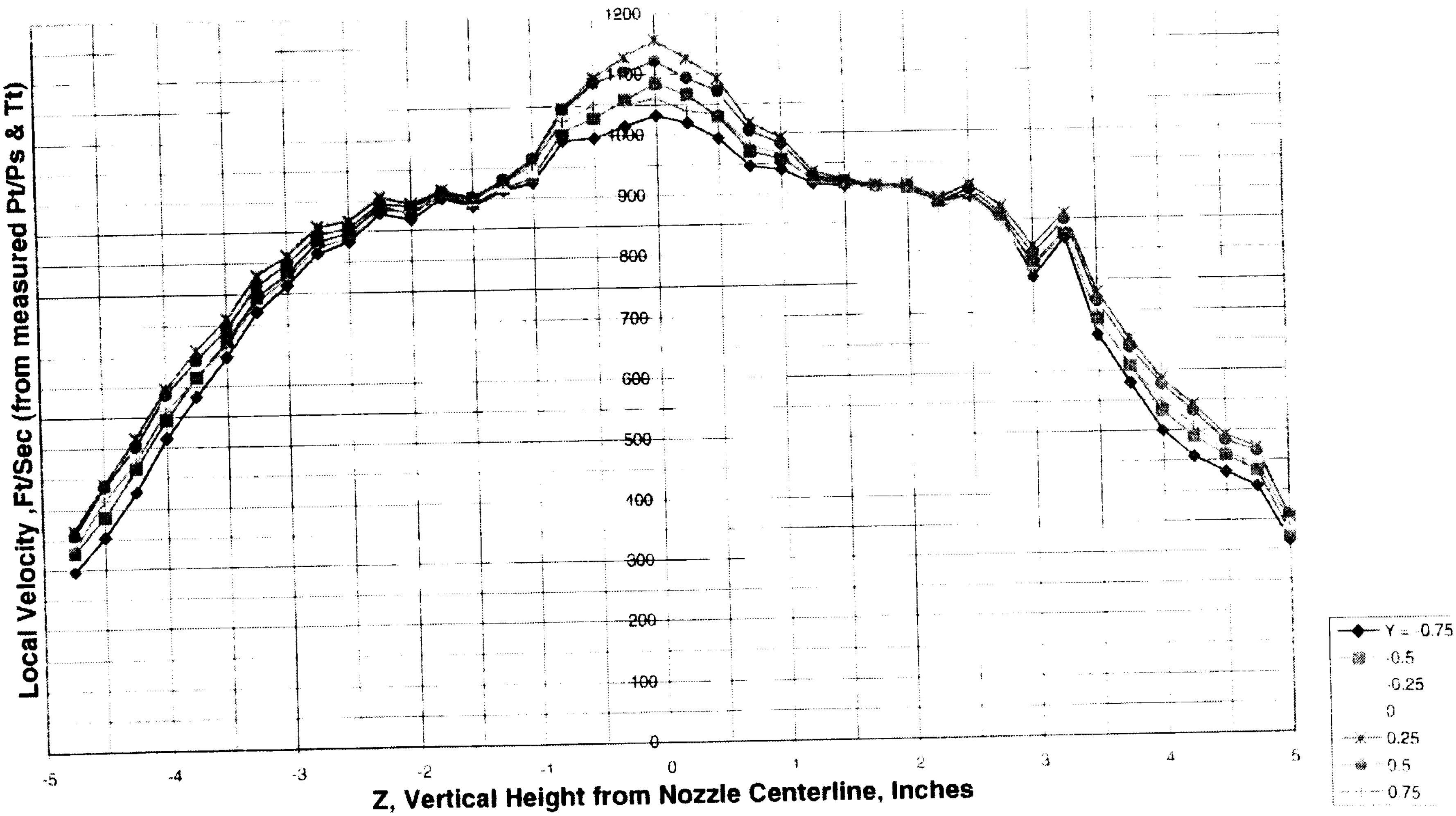
12L Baseline Mixer with Cutouts, 100% Nozzle Length, Velocity Survey @ x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V574



D. Baker 7/16/97 FILE: XV 574.xls

FIGURE 36

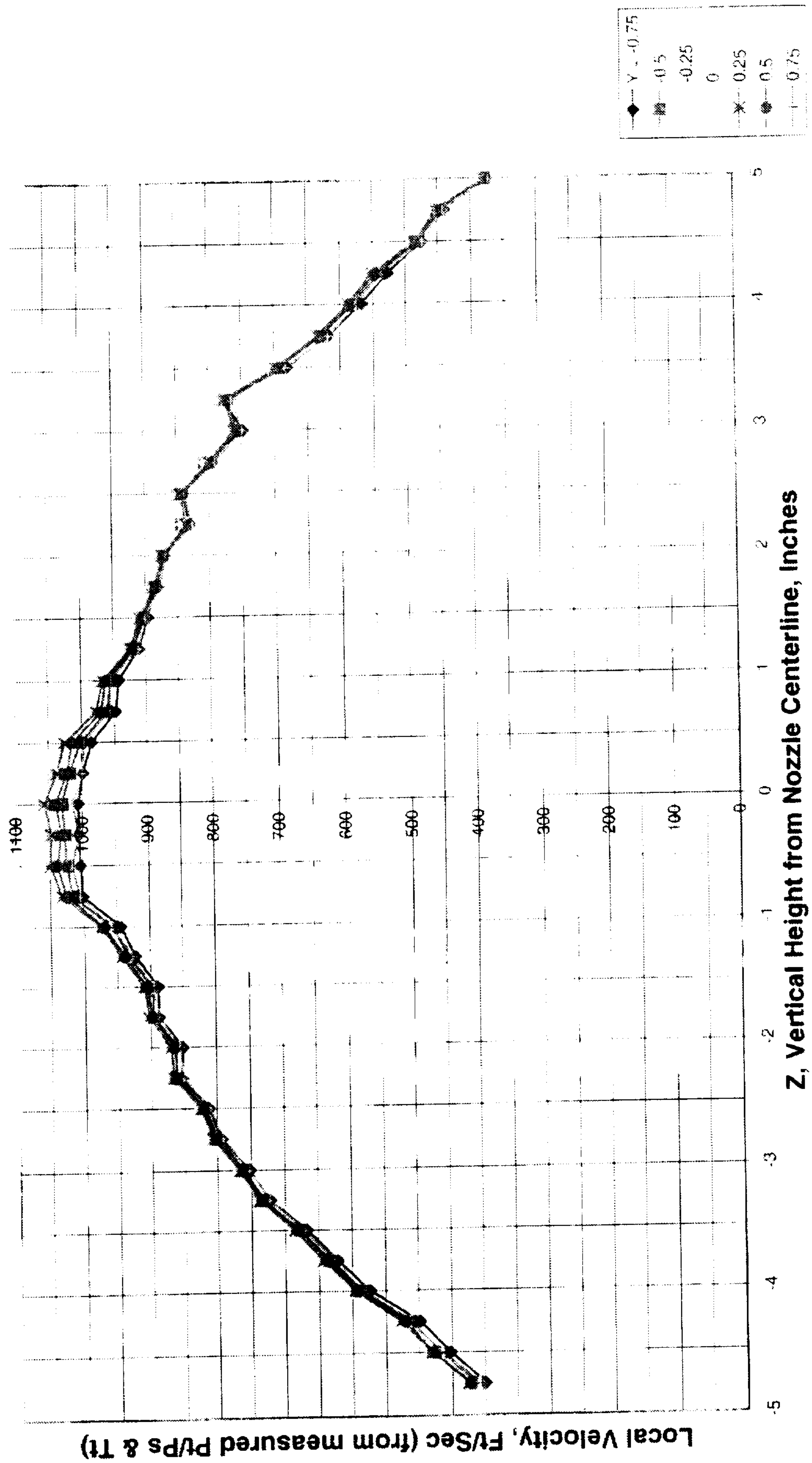
12L Baseline with Cutouts, 100% Nozzle Length, Velocity Survey @ x/D=3.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests
Rdg # V572



D. Baker, 7/16/97; FILE: XV572.xls

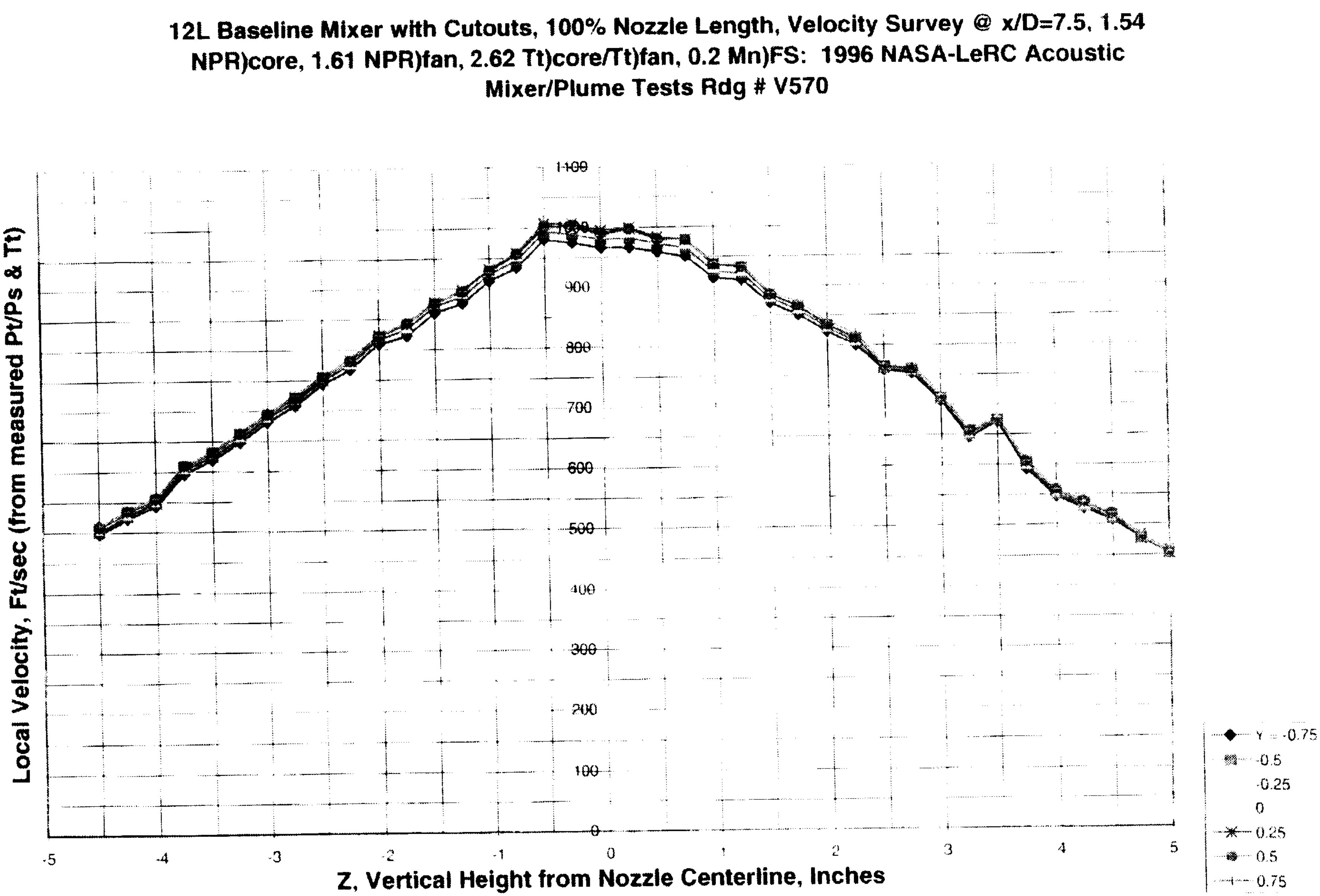
FIGURE 37

12L Baseline Mixer with Cutouts, 100% Nozzle Length, Velocity Survey @ x/D=5.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V571



D. Baker, 7/15/97; FILE: XV571.xls

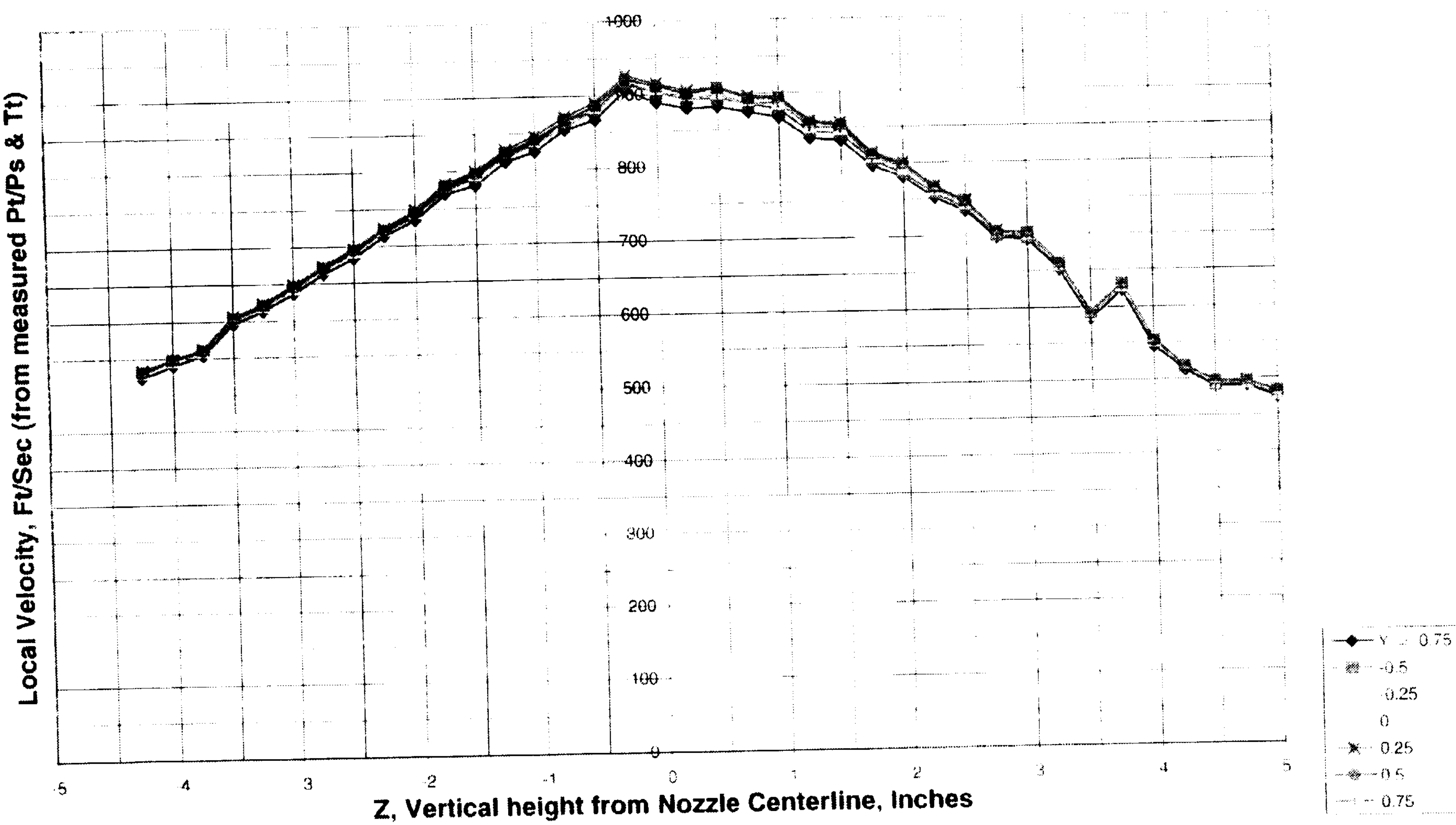
FIGURE 38



D. Baker. 7/15/97: FILE. XV570

FIGURE 39

12L Baseline Mixer with Cutouts, 100% Nozzle Length, Velocity Survey @ x/D=10.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V569



D. Baker, 7/15/97 FILE: XV569.xls

Figure 40(a). Velocity profiles for 12CL mixer with 100% nozzle length at X/D=0.2 for TO #3 at M(fj) = 0.2.

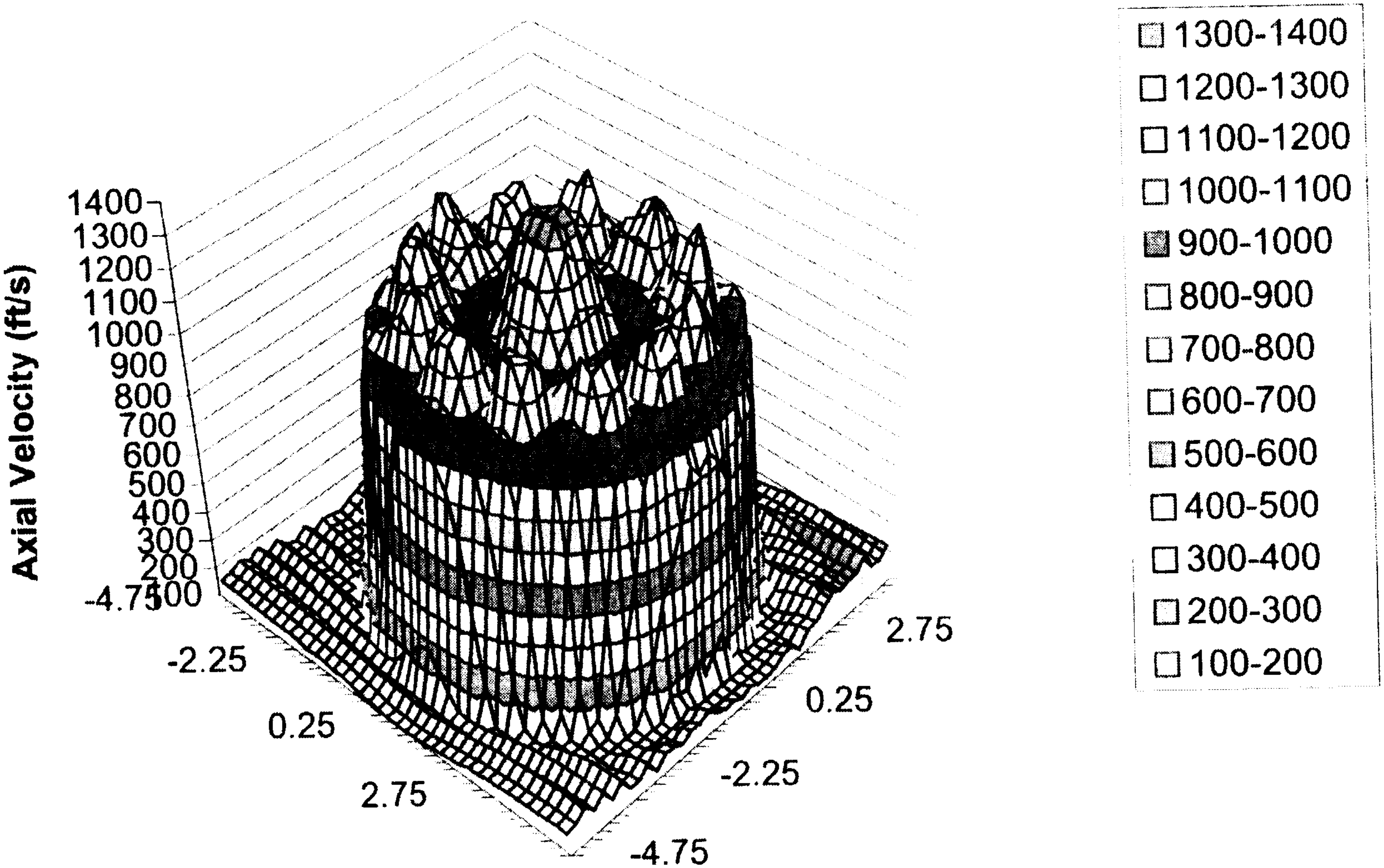
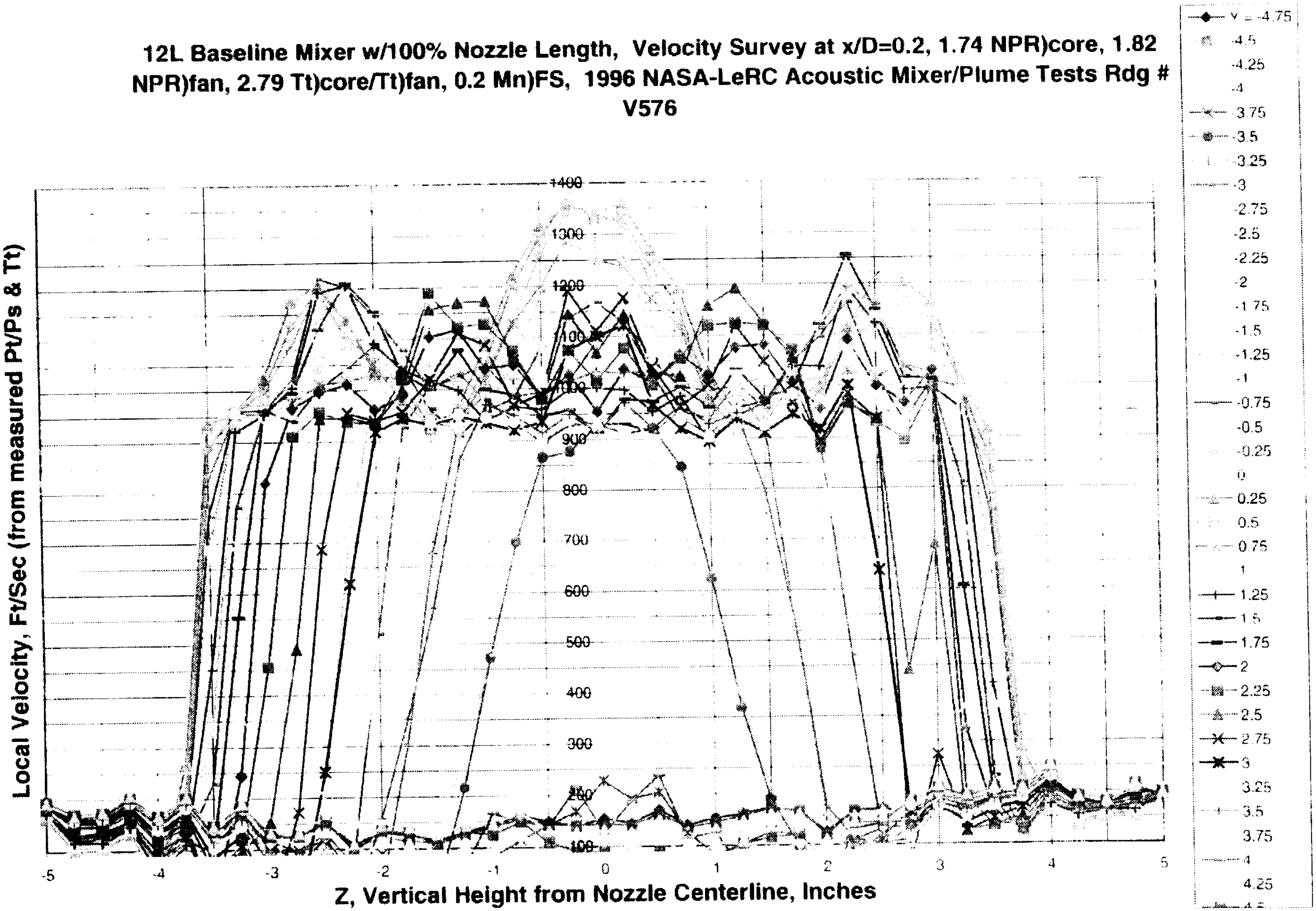


FIGURE 40(b)

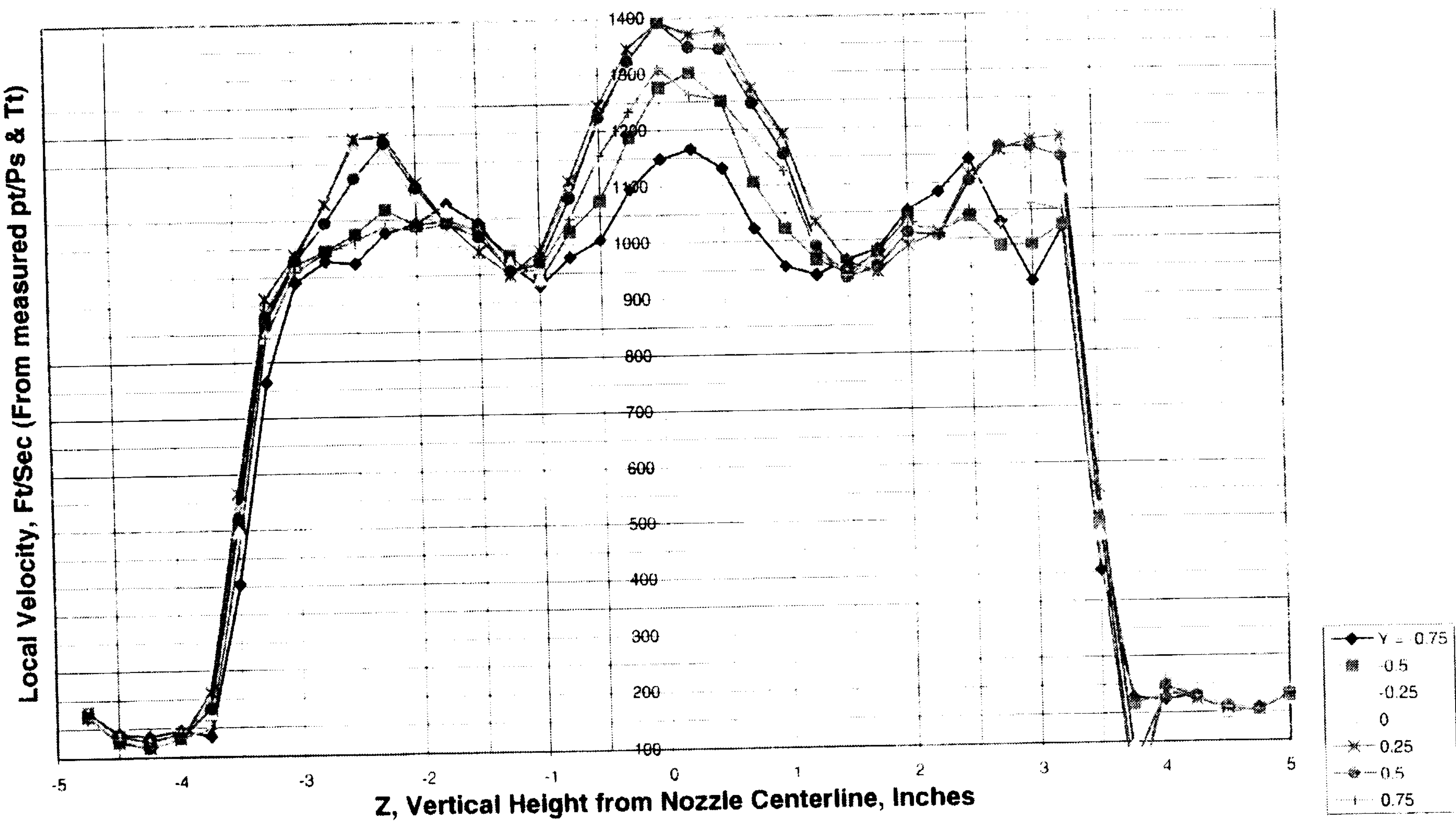
12L Baseline Mixer w/100% Nozzle Length, Velocity Survey at x/D=0.2, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V576



D Baker, 6/19/97; File:XV576.XLS

FIGURE 41

12L baseline Mixer w/100% Nozzle Length, Velocity Curvey at x/D=0.5, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V578



D. Baker, 6/19/97; File: XV578.XLS

Figure 42(a). 12L Baseline Mixer (12CL) w/100% Nozzle Length, Velocity Survey at x/D=1.0, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V577

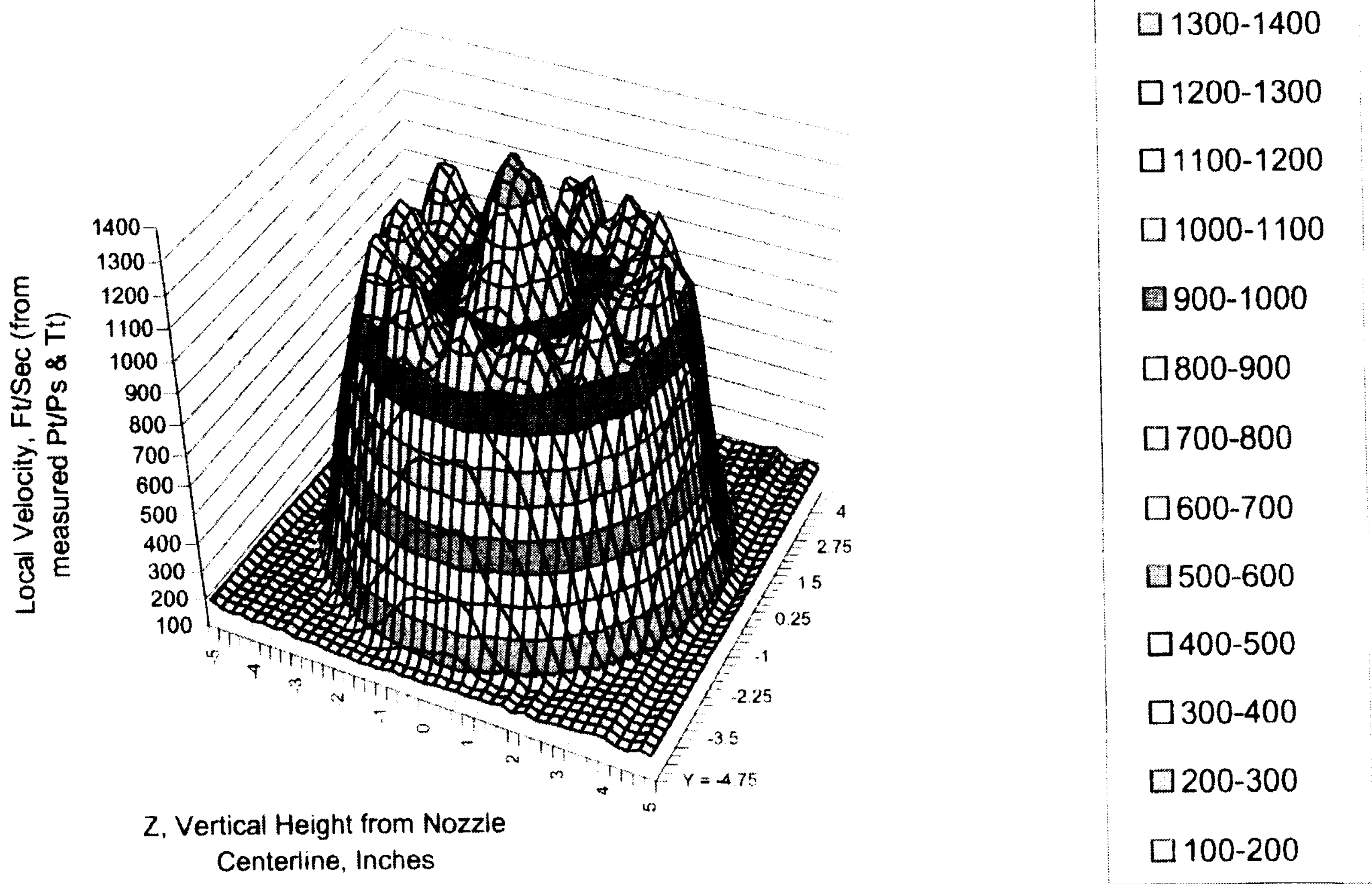


Figure 42(b). Zoom for 12L Baseline Mixer (12CL) w/100% Nozzle Length, Velocity Survey at x/D=1.0, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V577

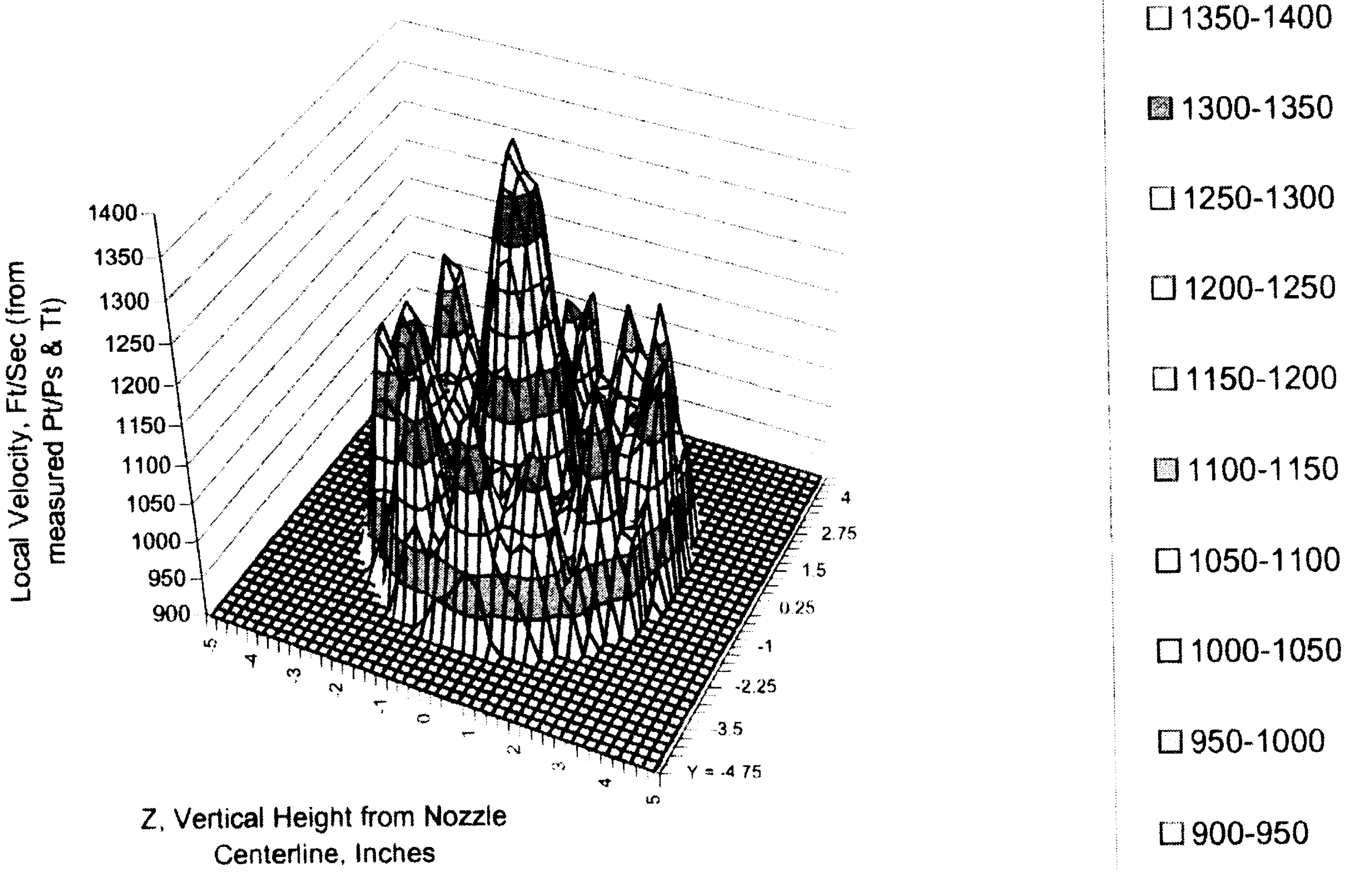
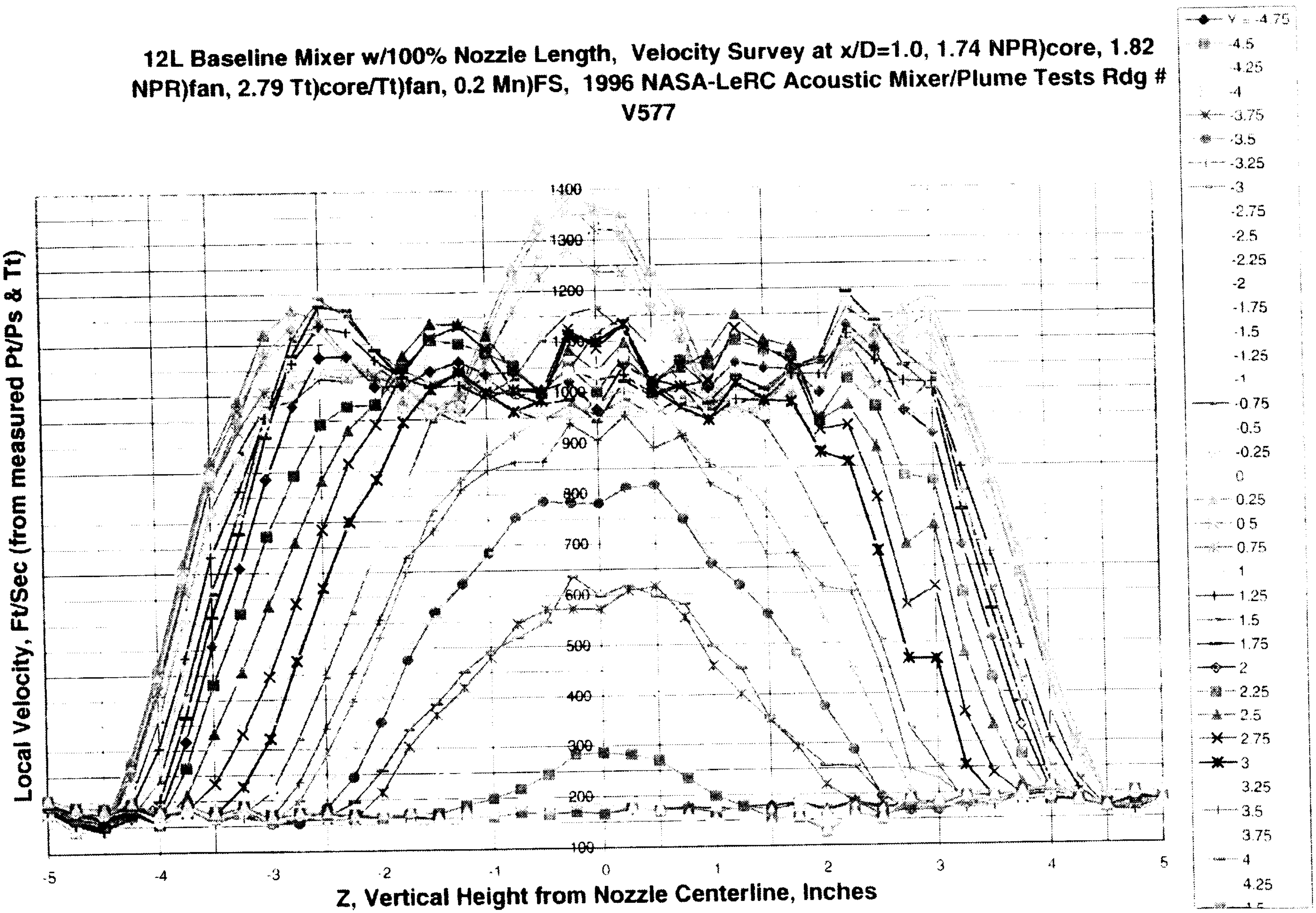


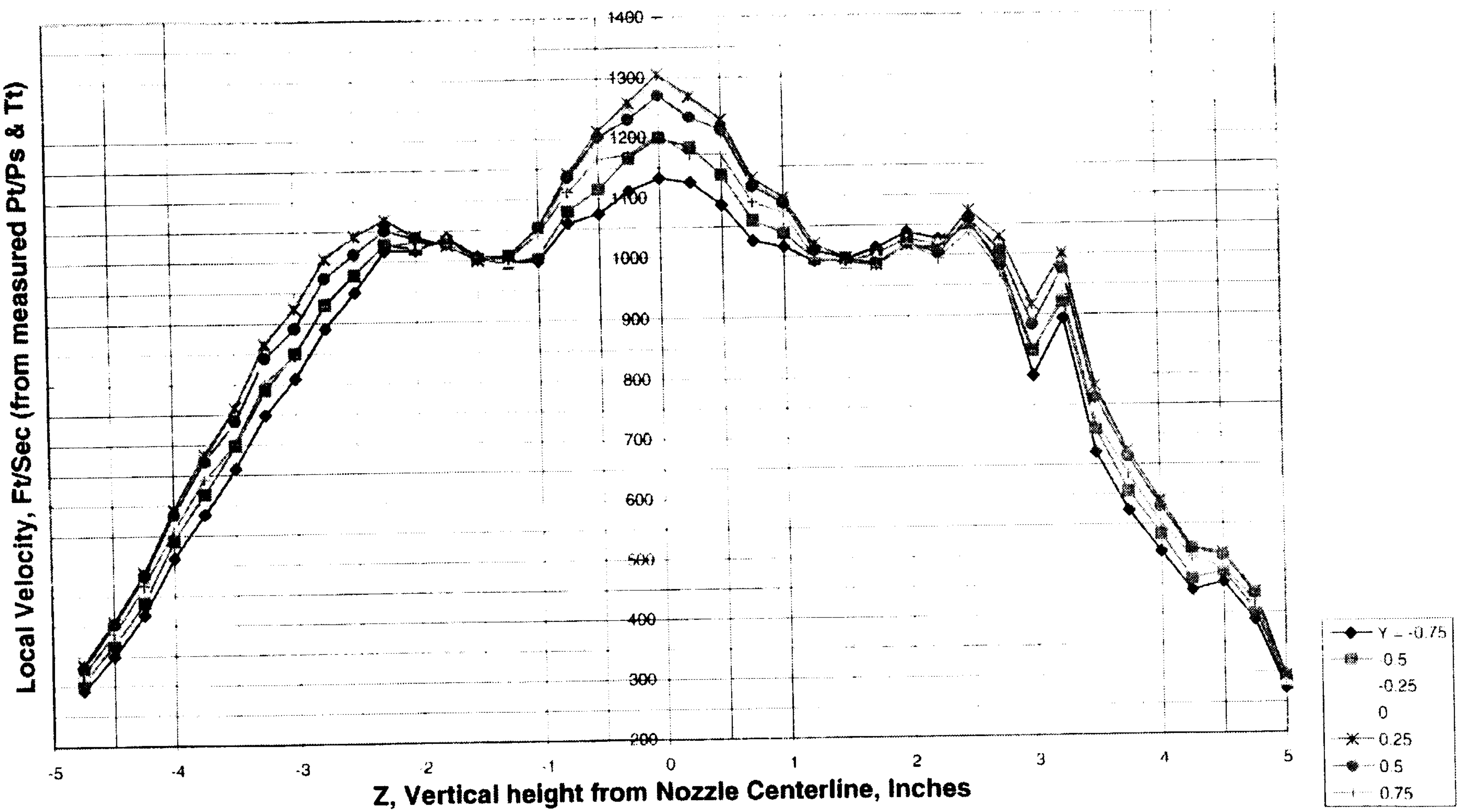
FIGURE 42(c)



D. Baker, 6/19/97: File: XV577.XLS

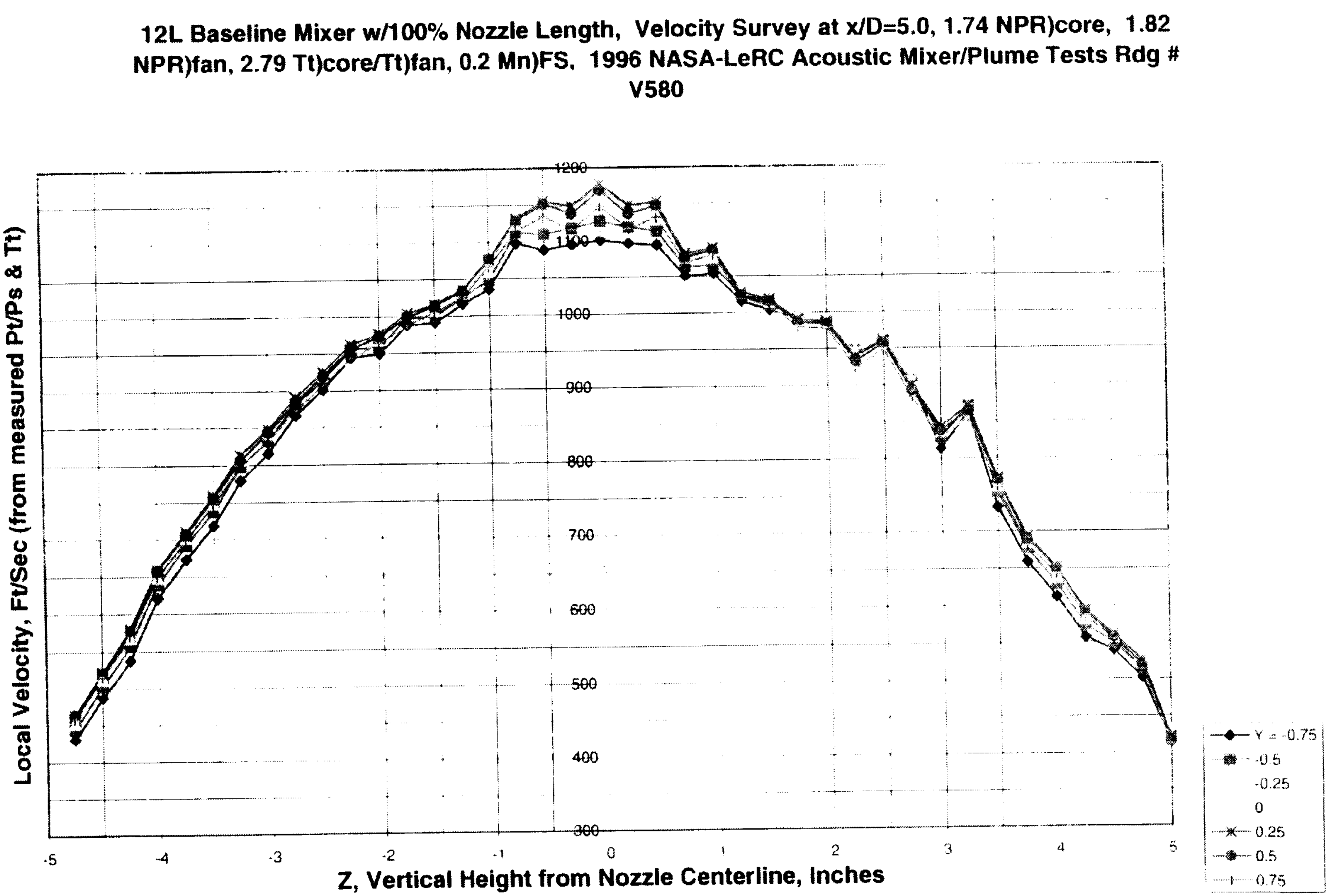
FIGURE 43

12L Baseline Mixer w/100% Nozzle length, Velocity Survey at x/D=3.0, 1.74 NPR)core,1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRc Acoustic Mixer/Plume Tests Rdg # V579



D. Baker, 6/19/97; File: XV579.XLS

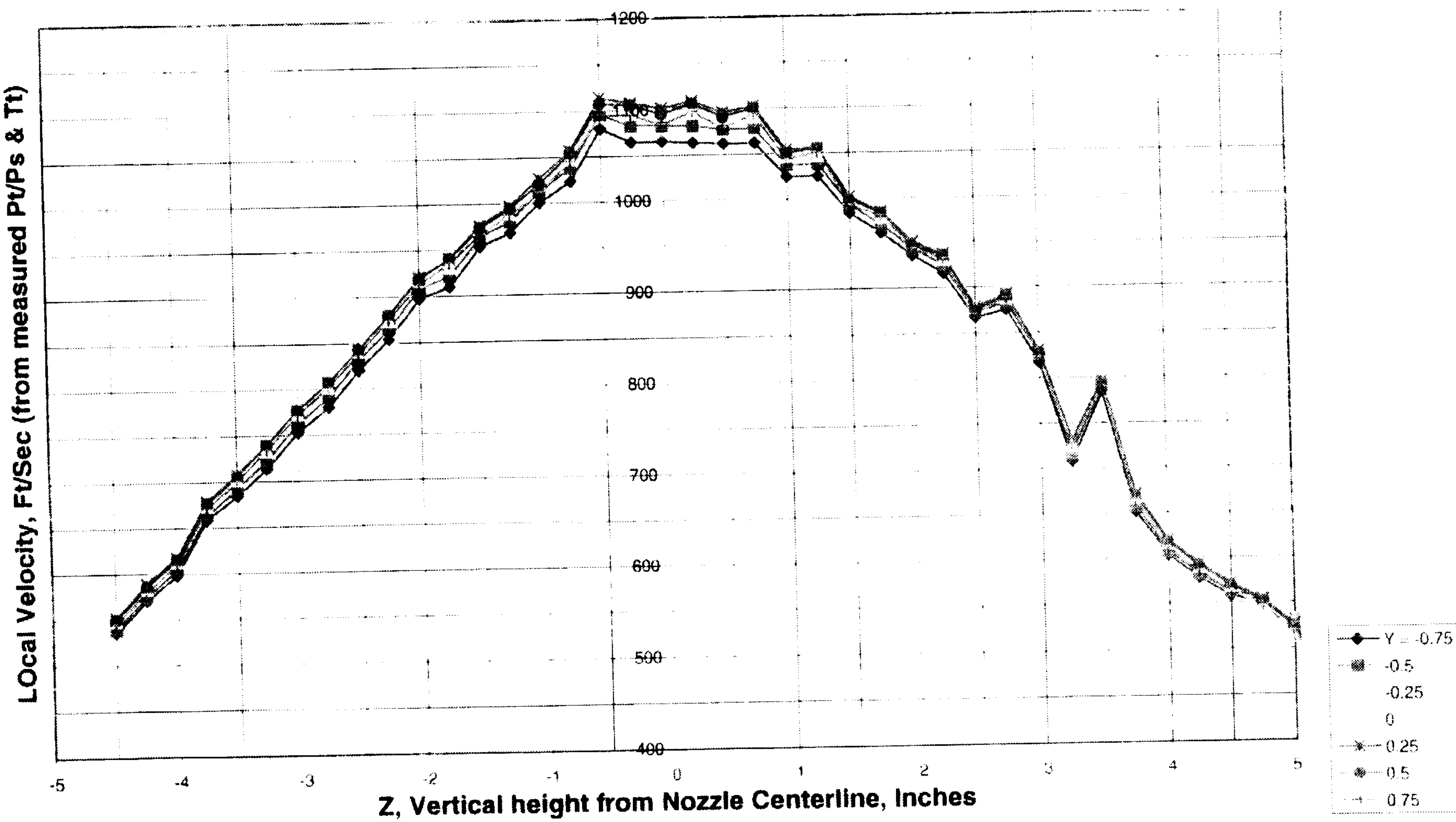
FIGURE 44



D. Baker, 6/19/97: File: XV580.XLS

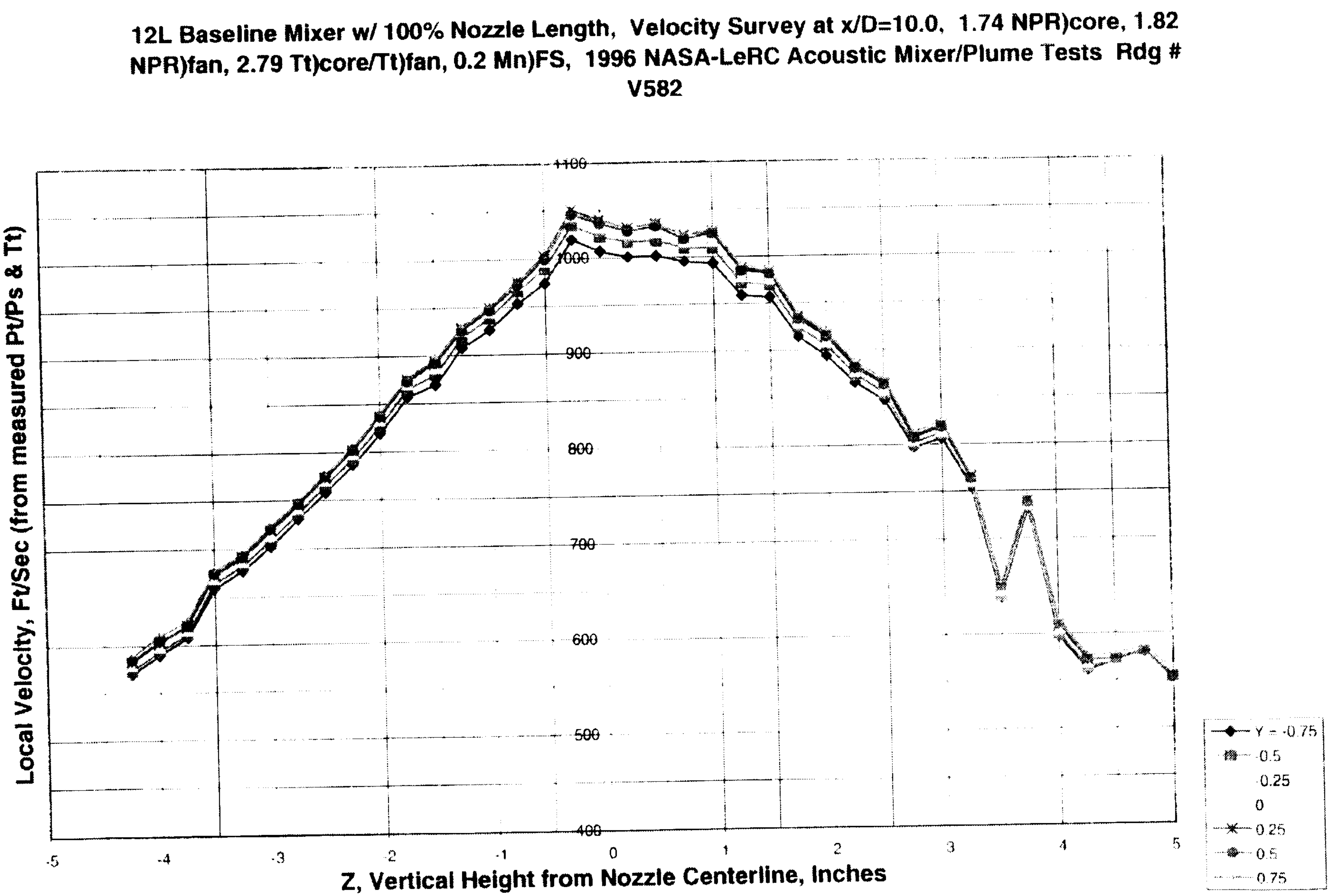
FIGURE 45

12L Baseline Mixer w/ 100% Nozzle Length, Velocity Survey at x/D=7.5, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V581



D. Baker, 6/19/97: File: XV581 XLS

FIGURE 46



D. Baker, 6/19/97. File: XV582.XLS

Figure 47. 12 L Baseline Mixer (12CL) w/ 100% Nozzle Length Velocity Survey at x/D=0.2, 1.74 NPR)core, 1.82 NPR)core, 0.2 Mn)FS, 2.79Tt)core/Tt)fan, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V597

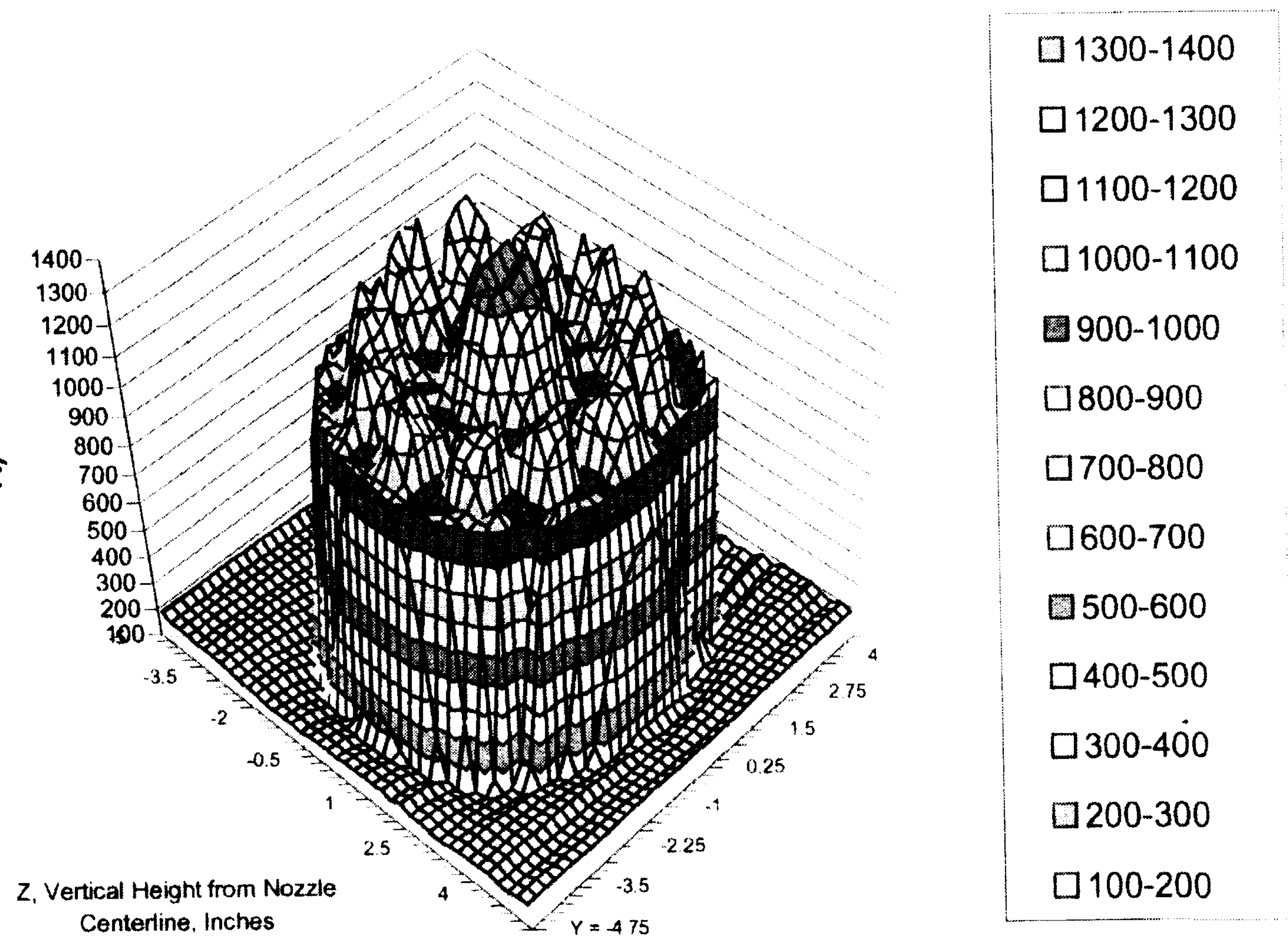
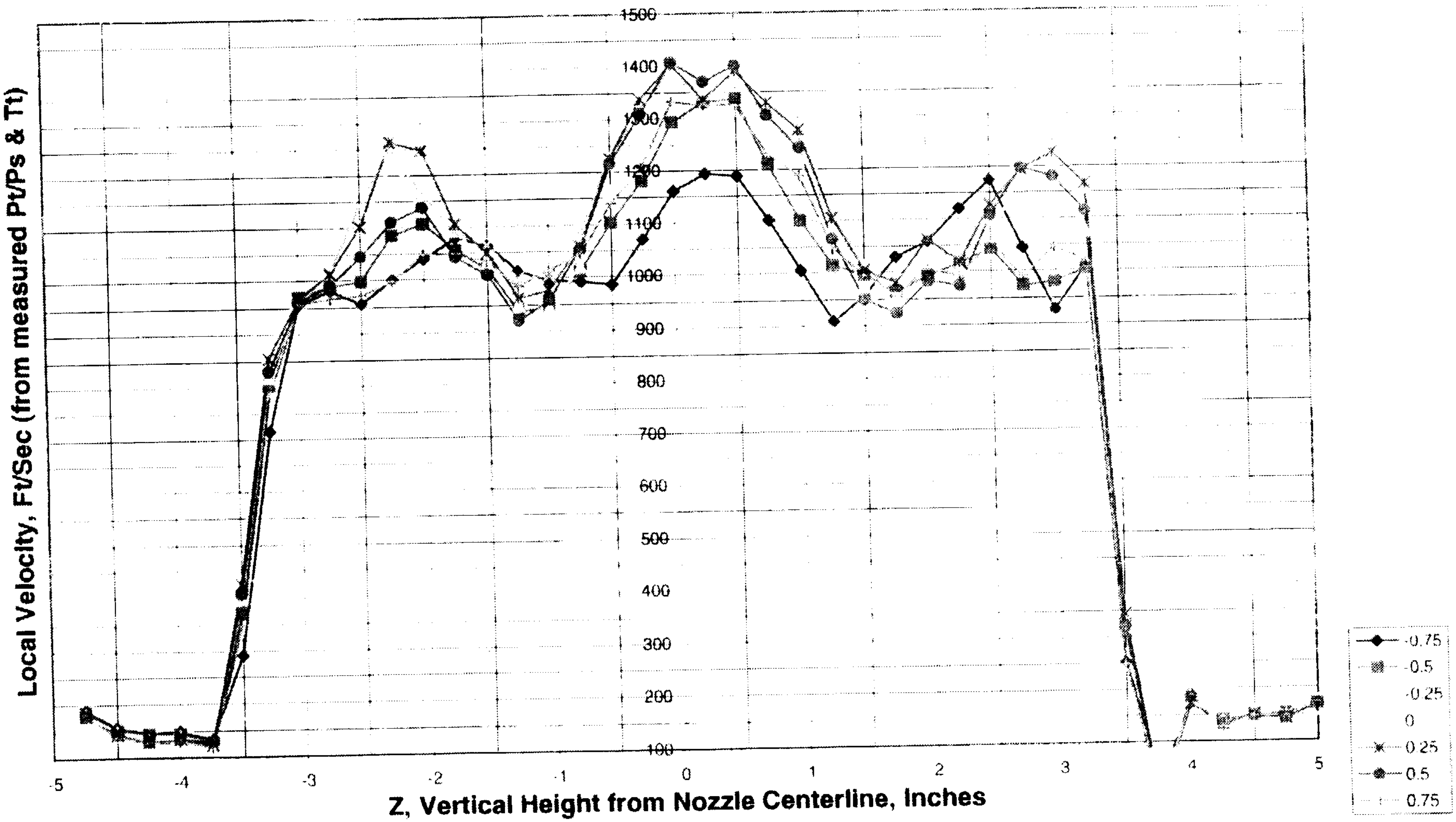


FIGURE 48

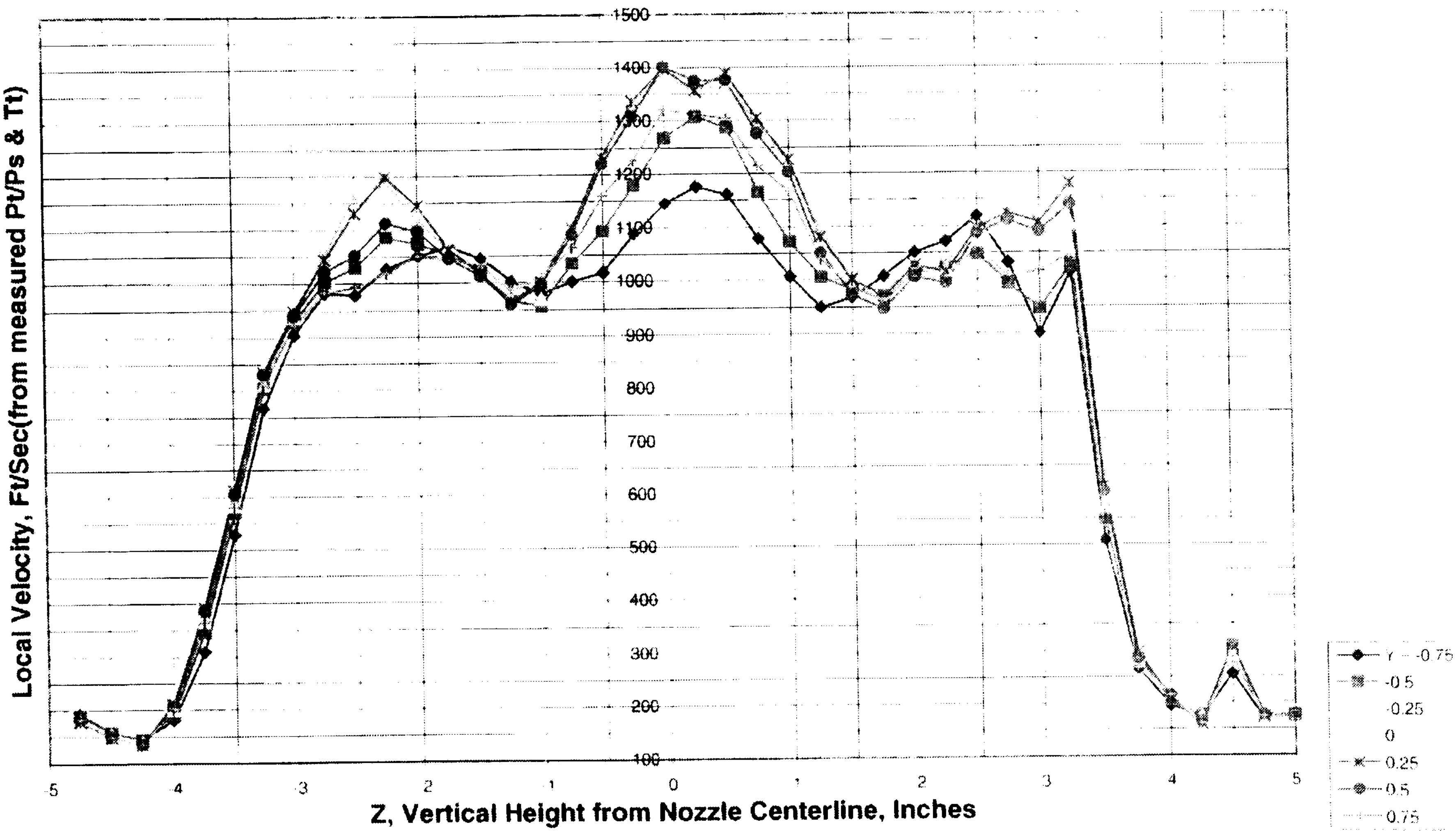
12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=0.5, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V598



D. Baker, 6/17/97. File: XV598.XLS

FIGURE 49

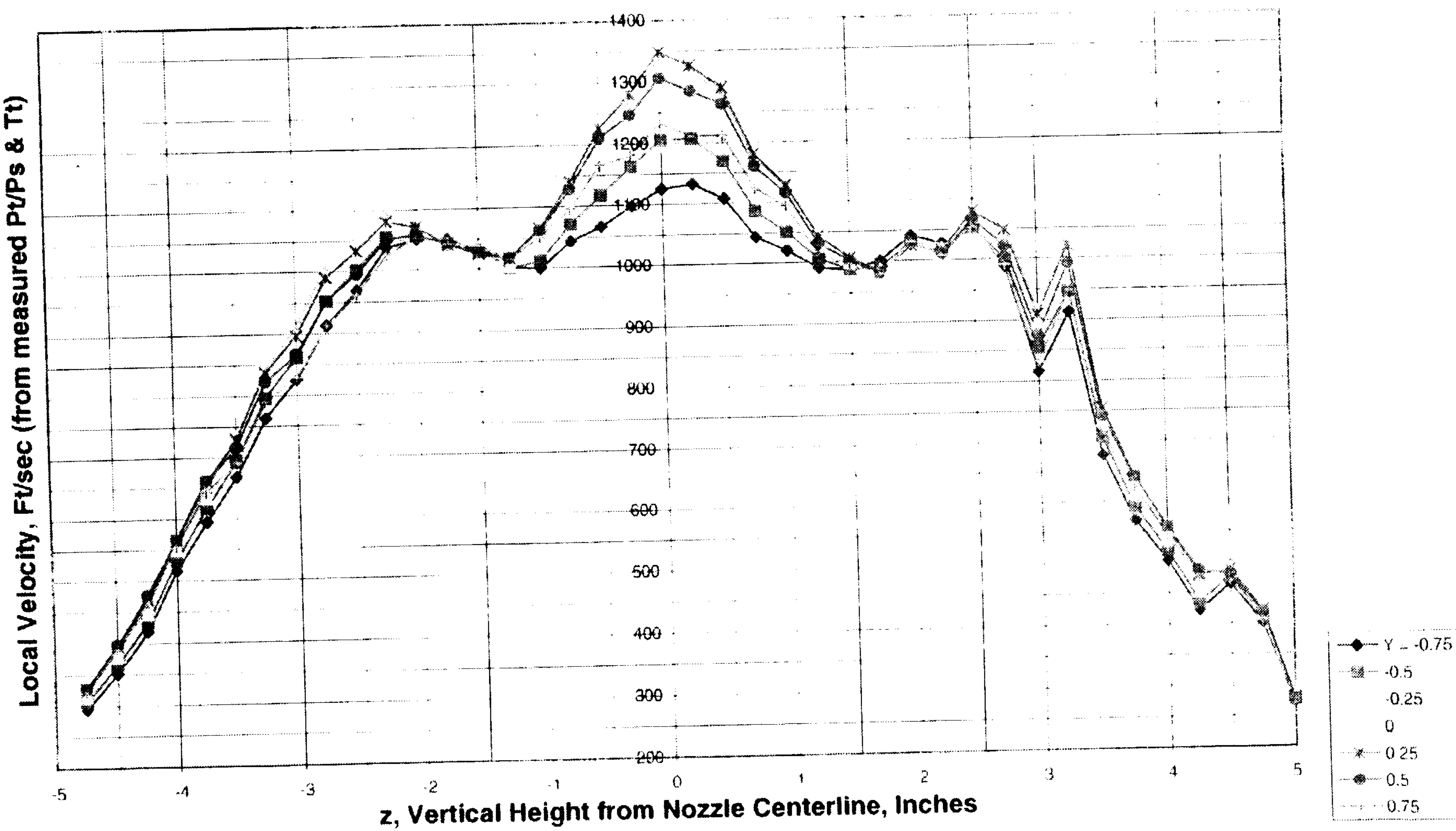
12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=1.0, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1966 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V599



D. Baker, 6/18/97; File: XV599.XLS

FIGURE 50

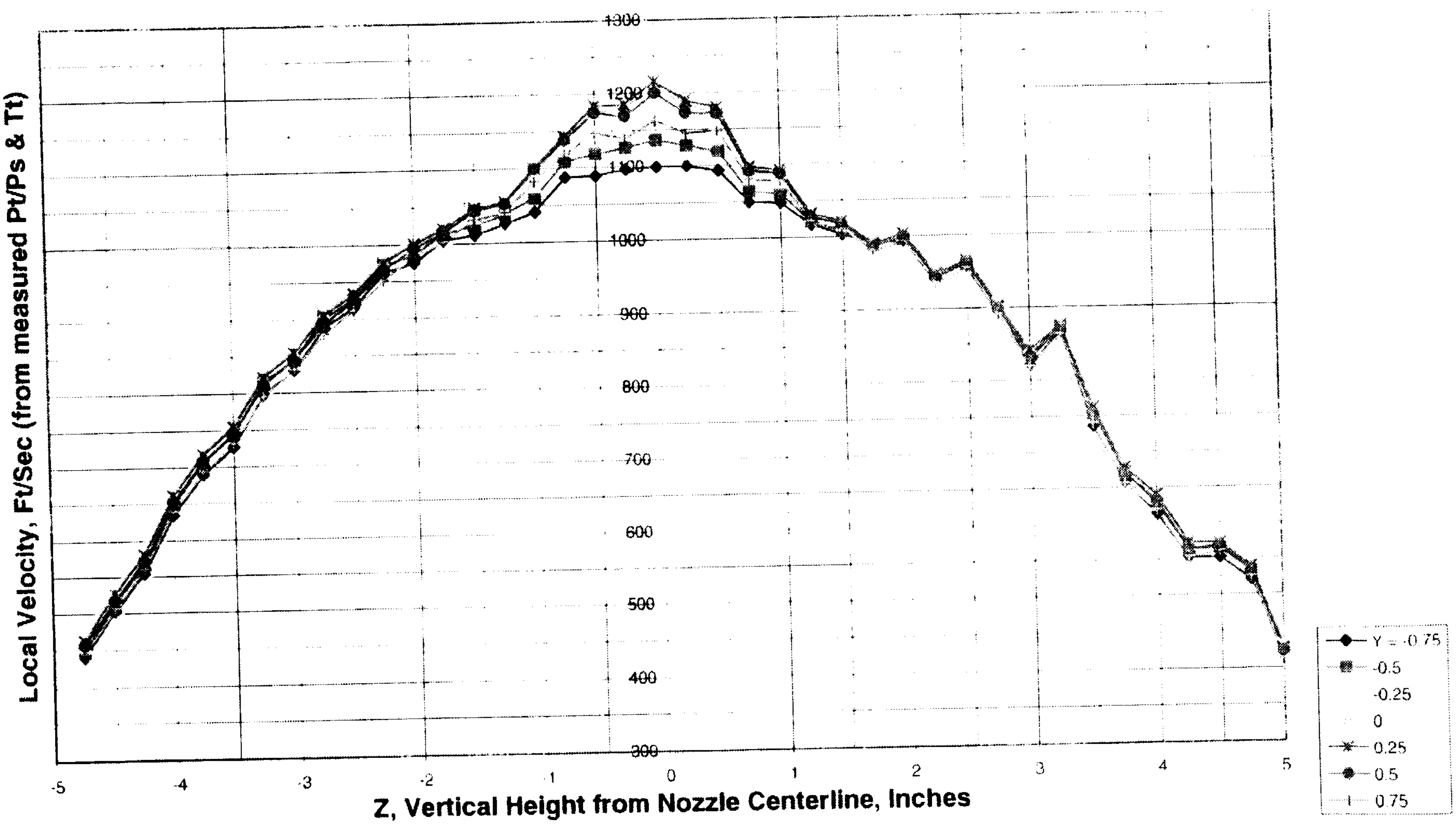
12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=3.0, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1966 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V600



D. Baker, 6/18/97: File: XV600.XLS

FIGURE 51

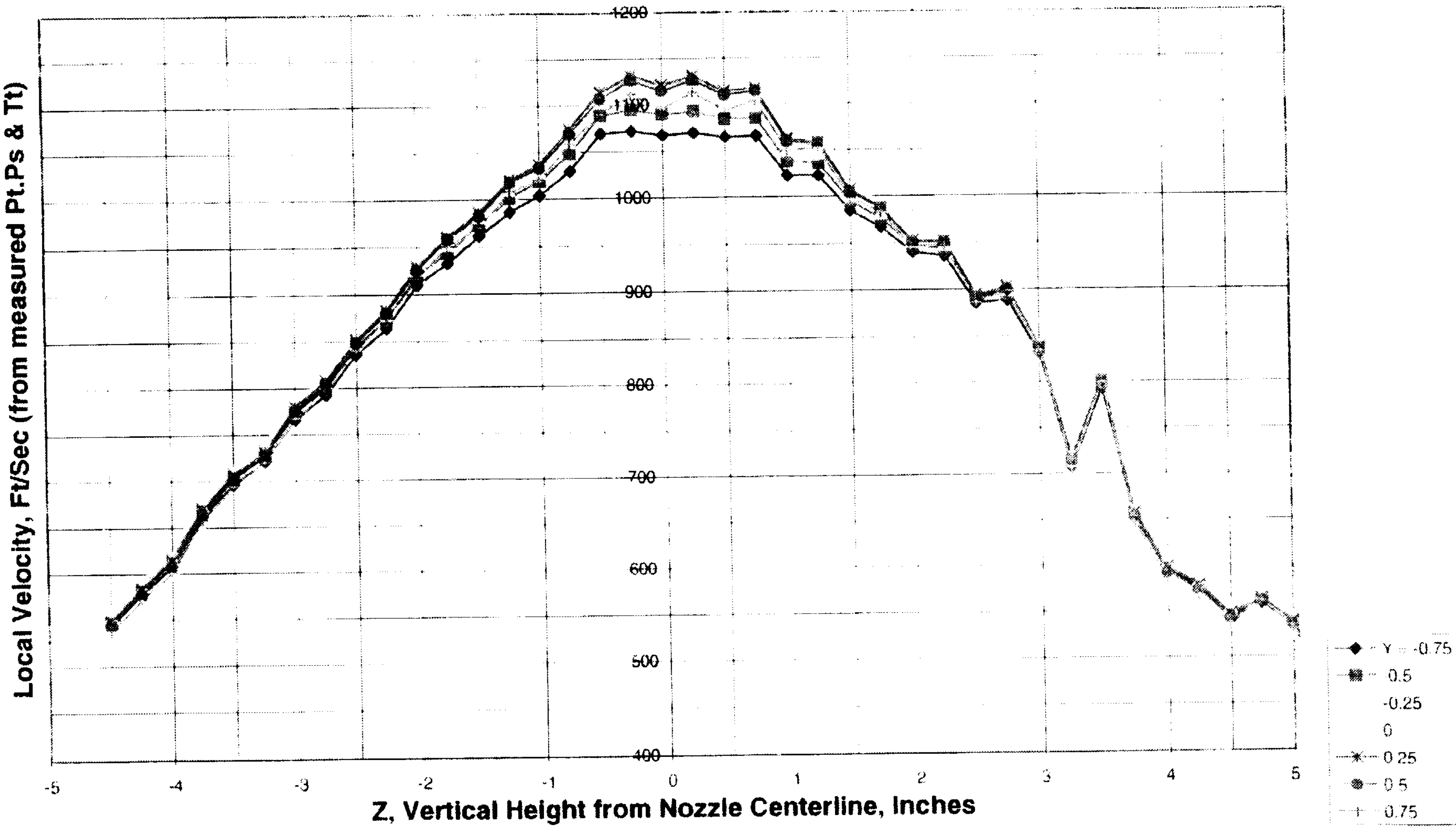
12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=5.0, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1966 NASA-LeRC Acoustic Mixer/Plume Tests Rdg# V601



D. Baker, 6/18/97; File:XV601.XLS

FIGURE 52

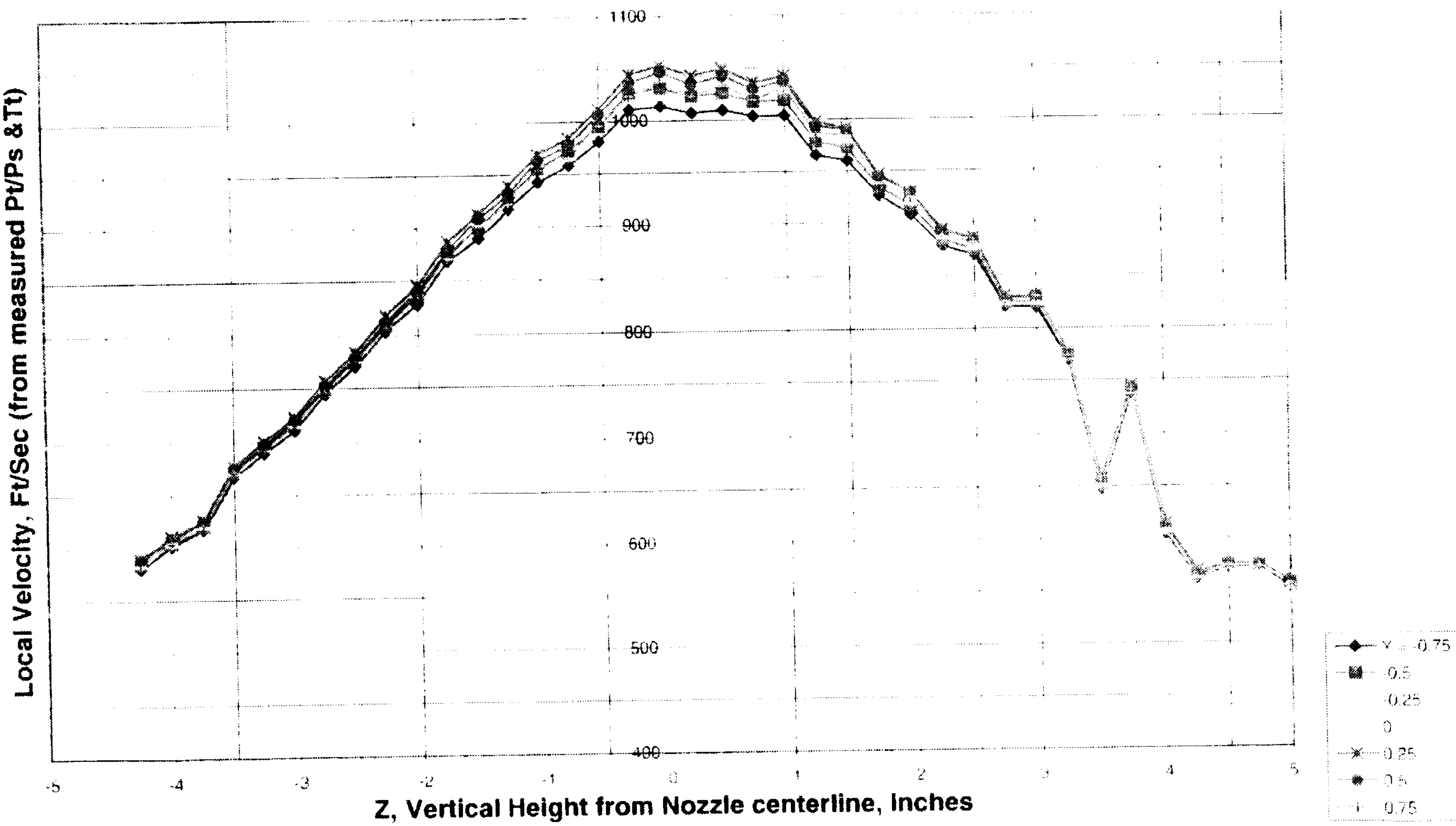
12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=7.5, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1966 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # V602



D. Baker, 6/18/97, File: XV602.xls

FIGURE 53

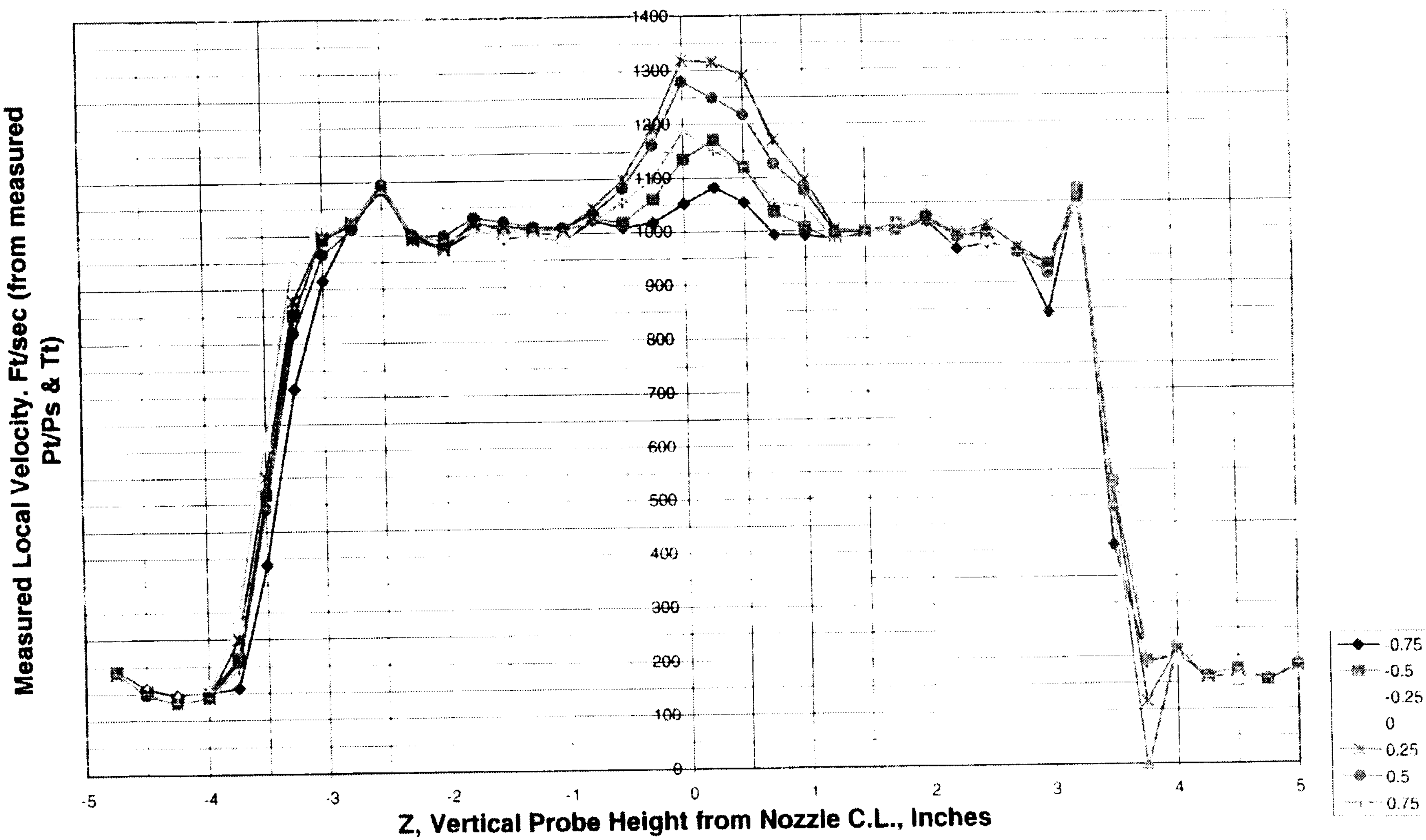
12L Baseline Mixer w/50% Nozzle Length Velocity Survey at x/D=10.0, 1.74 NPR)core, 1.82 NPR)fan, 0.2 Mn)FS, 2.79 Tt)core/Tt)fan, 1966 NASA-LeRC Acoustic Mixer/Plume Tests Rdg #V603



D. Baker, 6/18/97, File: XV603.XLS

FIGURE 54

20L Deep Scalloped Mixer W/100% Nozzle Length - x/D=0.5, 1.74 NPR)core. 1.82 NPR)fan, 2.79 Tt)coreTt)fan, Rdg# V542 - 1996 NASA-LeRC Acoustic Mixer/Plume Test



D. Baker 6/16/97; File: XV542.XLS

Figure 55(a). Velocity Profile at x/D=1.0, 20L Deep Scalloped Mixer (20DH) w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan 2.79 Tt)core/Tt)fan, Rdg# V541 - 1996 NASA-LeRC Acoustic Mixer/Plume Test

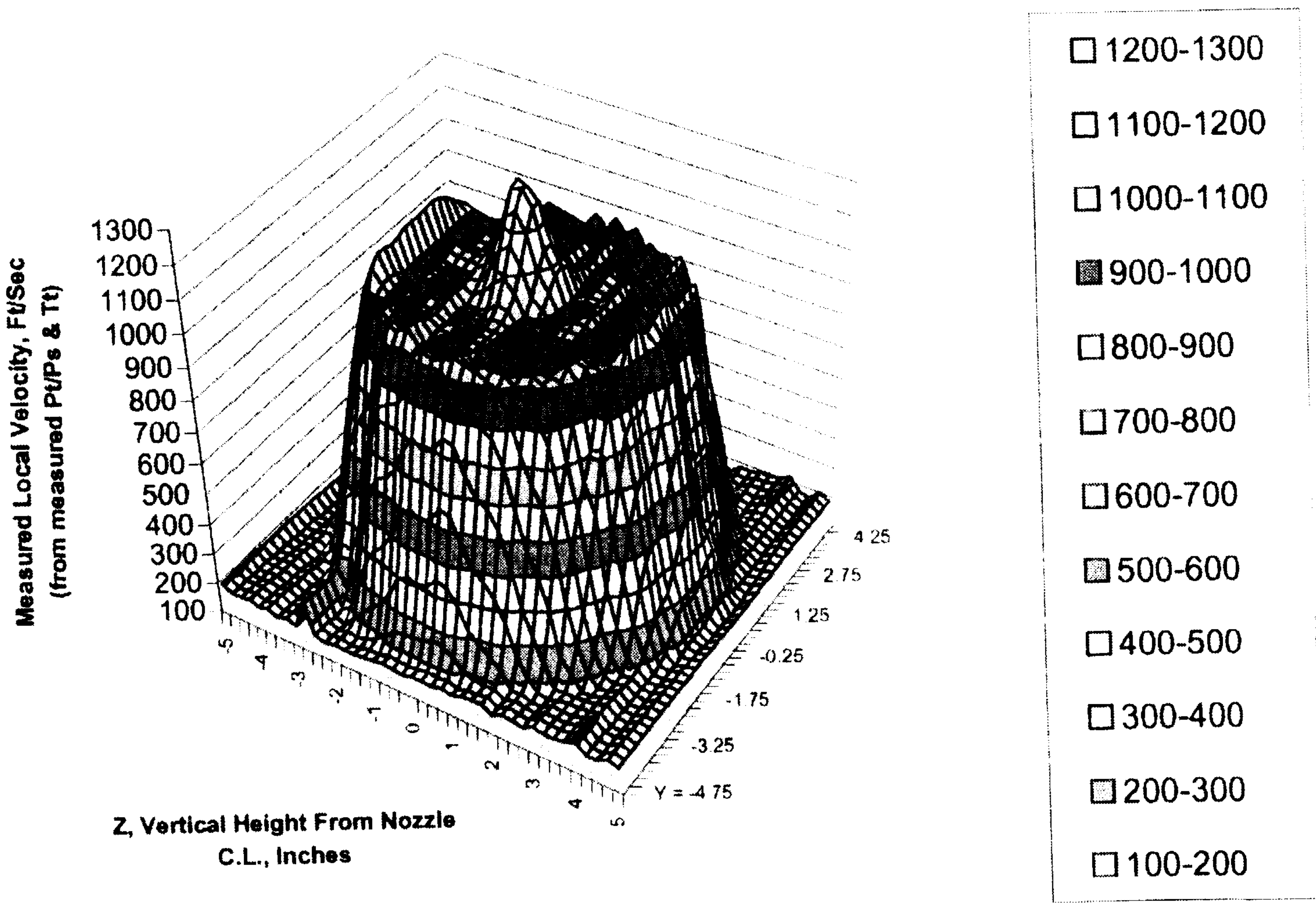
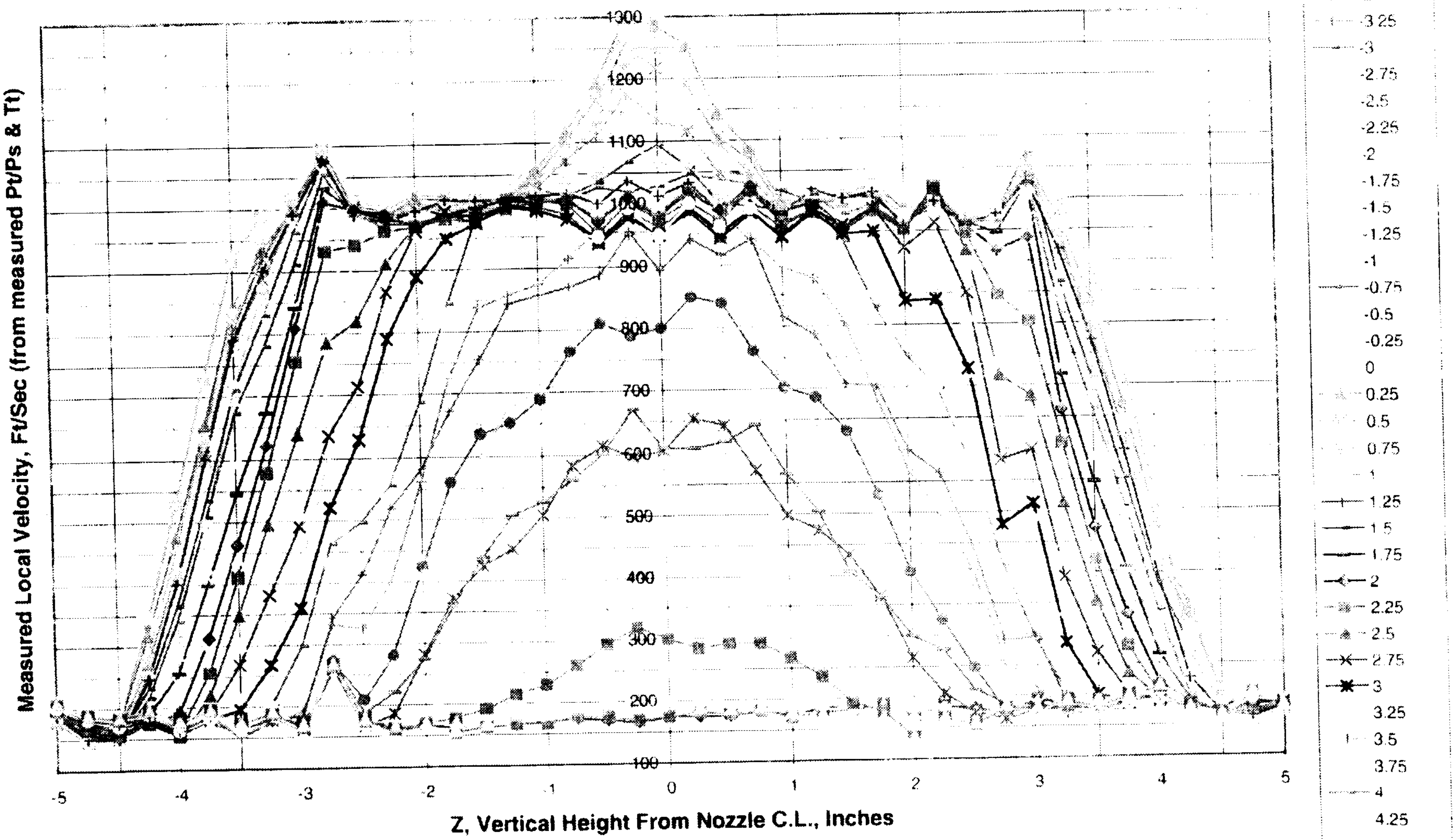


FIGURE 55 (b)

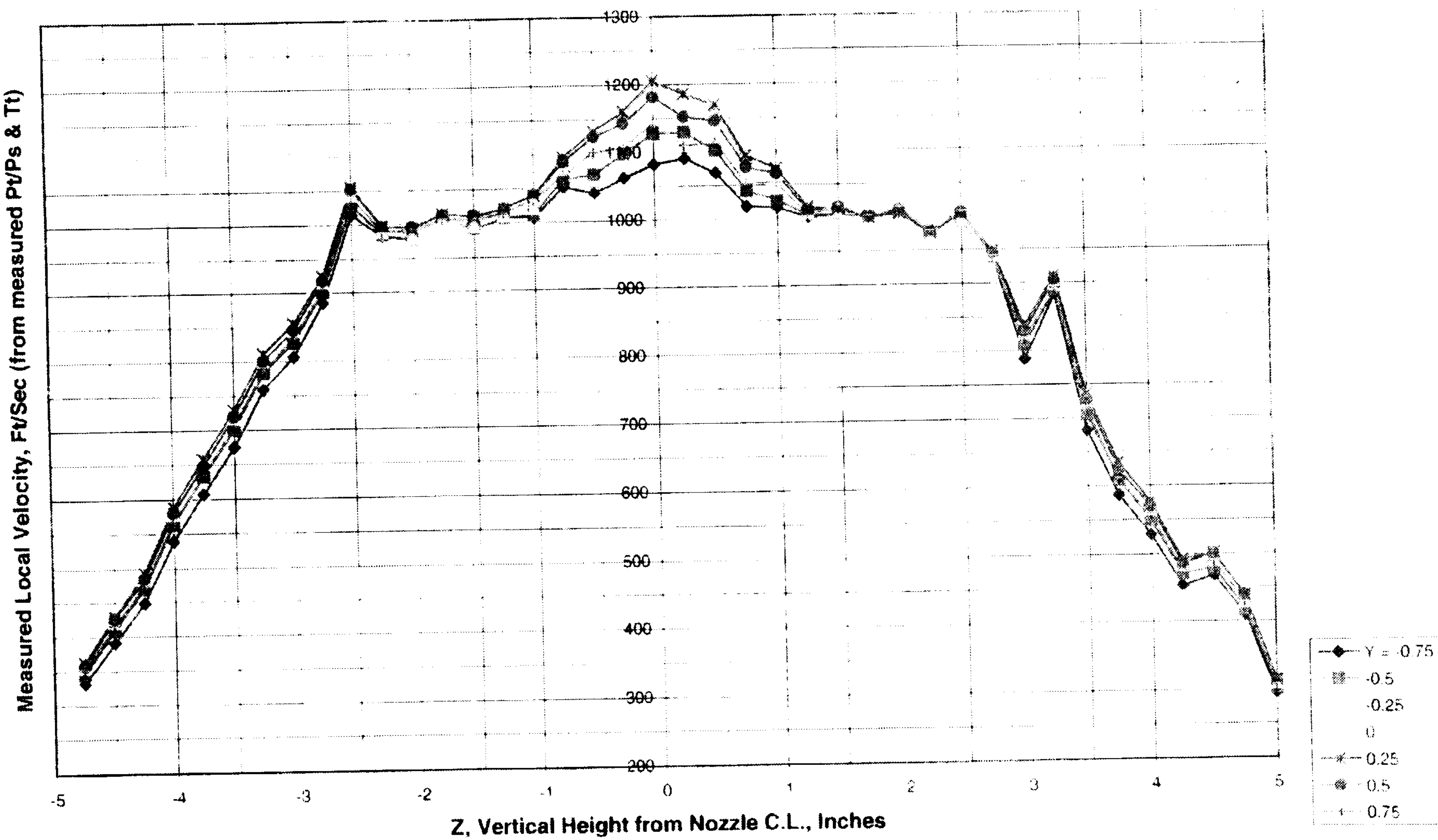
Velocity Profile at x/D=1.0, 20L Deep Scalloped Mixer w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan 2.79 Tt)core/Tt)fan, Rdg# V541 - 1996 NASA-LeRC Acoustic Mixer/Plume Test



D. Baker, 6/16/97. File:XV541.XLS

FIGURE 56

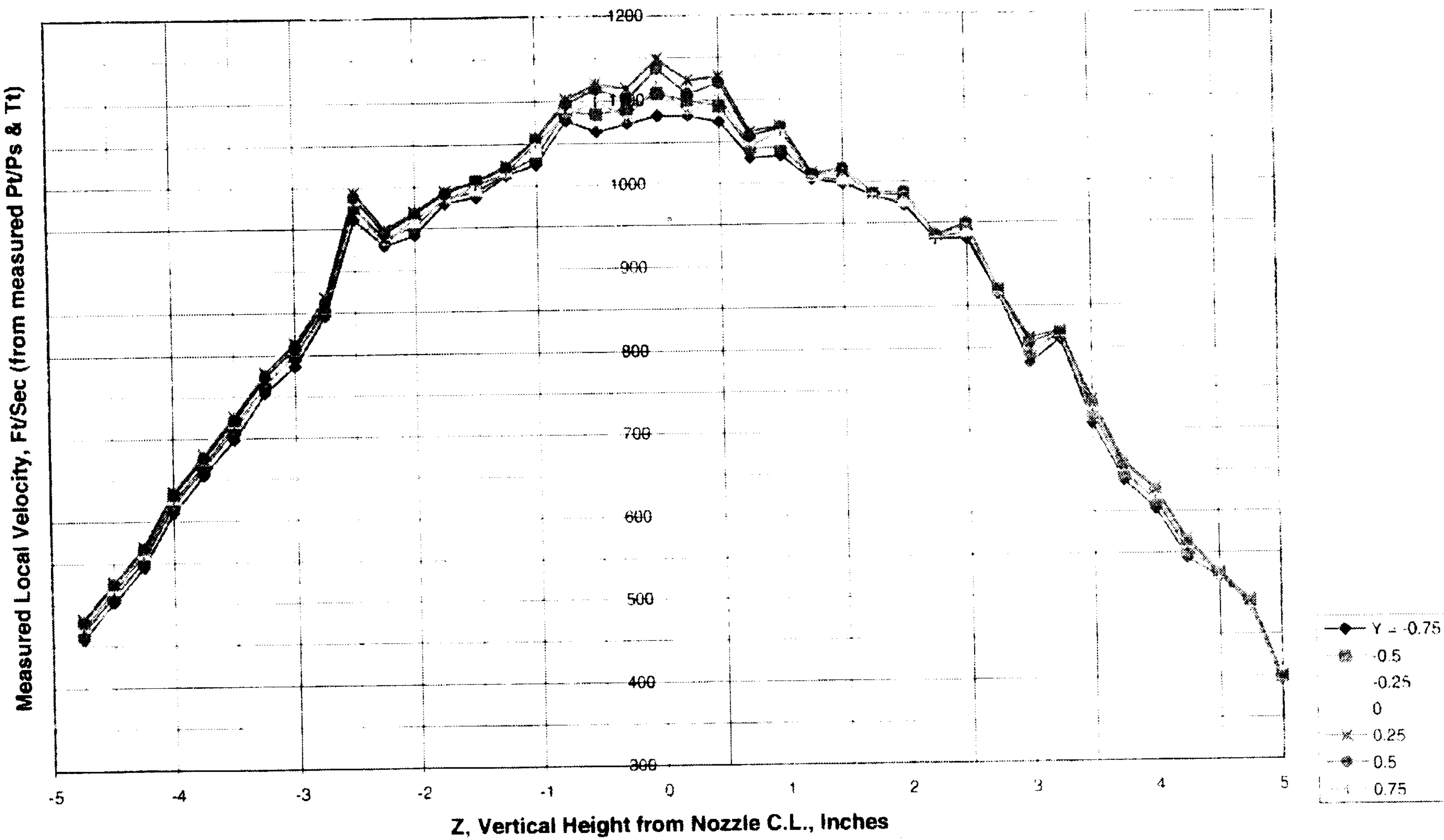
Velocity Profile at x/D=3.0, 20L Deep Scalloped Mixer w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, Rdg# V543 - 1996 Nasa-LeRC Acoustic Mixer/Plume Test



D. Baker 6/16/97: File: XV543.XLS

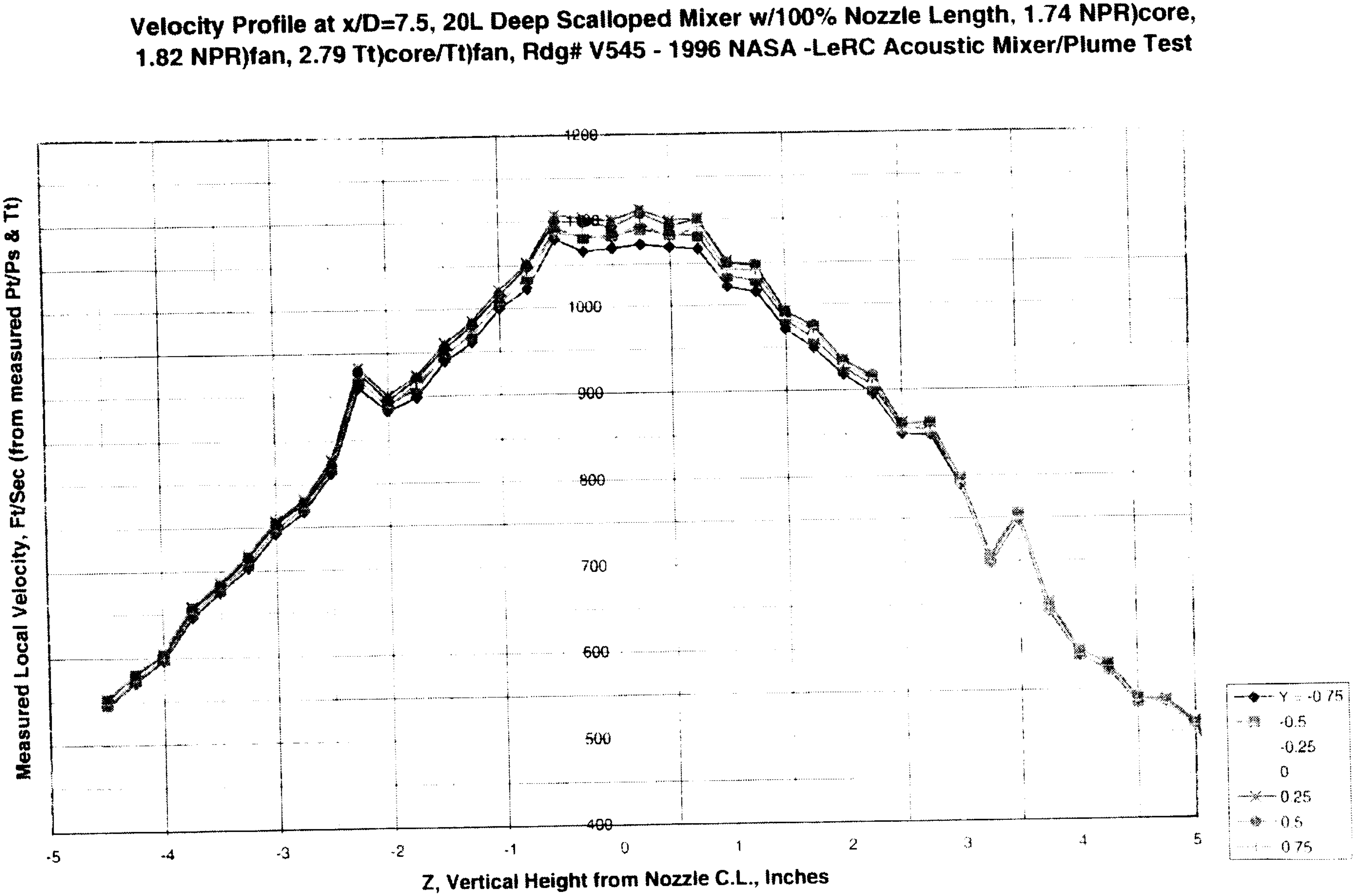
FIGURE 57

Velocity Profile at x/D=5.0, 20L Deep Scalloped Mixer w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Rt)core/Tt)fan, Rdg# V544 - 1996 NASA-LeRC Acoustic Mixer/Plume Test



D. Baker, 6/16/97; File: XV544.XLS

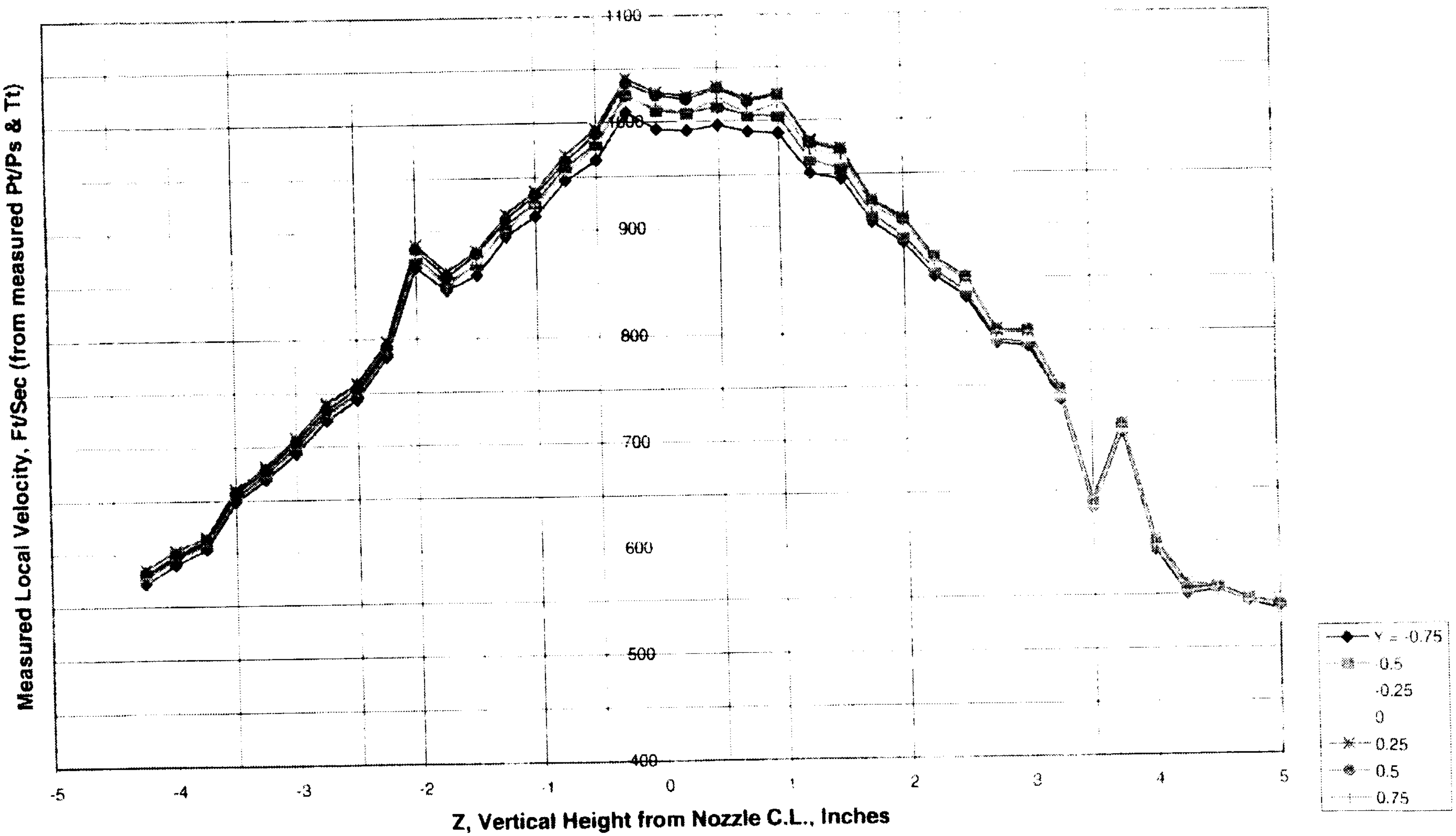
FIGURE 58



D. Baker, 6/16/97: File: XV545.XLS

FIGURE 59

Velocity Profile at x/D=10, 20L Deep Scalloped Mixer w/100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, Rdg# V546 - 1996 NASA-LeRC Acoustic Mixer/Plume Test



D. Baker, 6/16/97, File: XV546.XLS

Figure 60. JET WAKE DIAGRAM

20L Deep Mixer, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, 0.2 Mn)FS,

Rdg #s V552 to V557 - 1996 NASA-LeRC Acoustic Mixer/Plume Tests

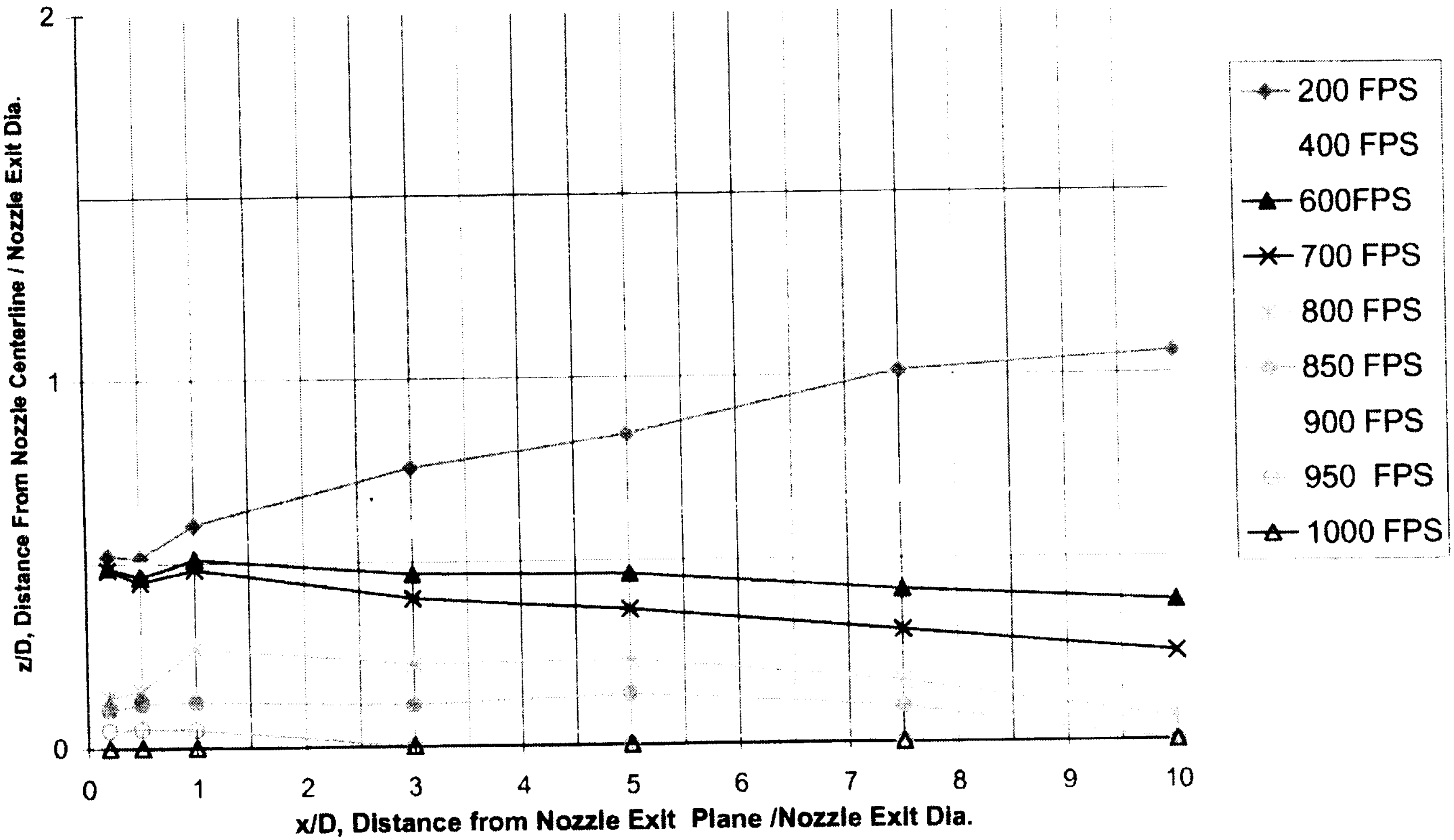


Figure 61. Maximum "Centerline" Total Temperature Decay - 1996 Nasa-LeRC Acoustic Mixer Plume Tests - NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, Mn)FS=0.2

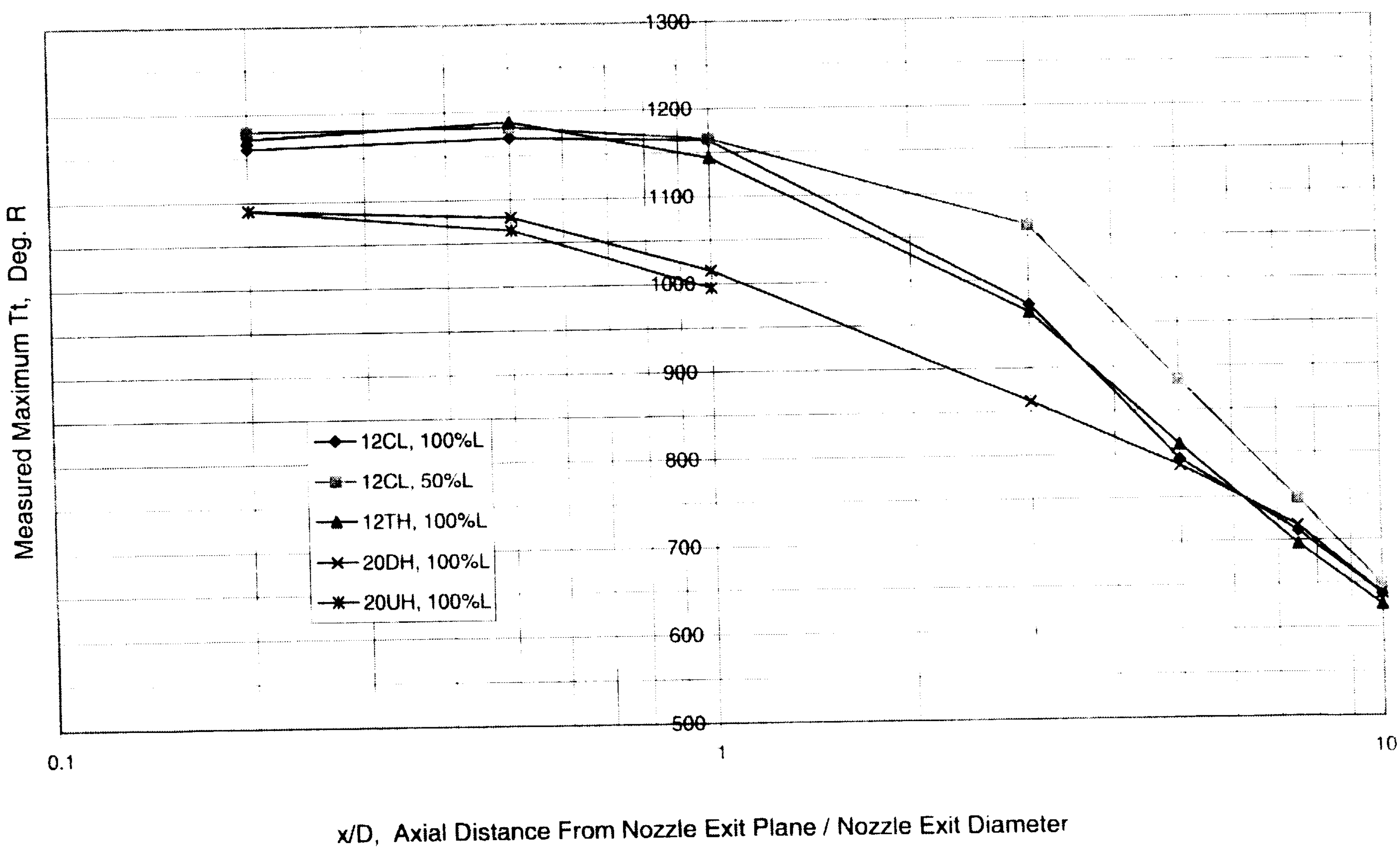
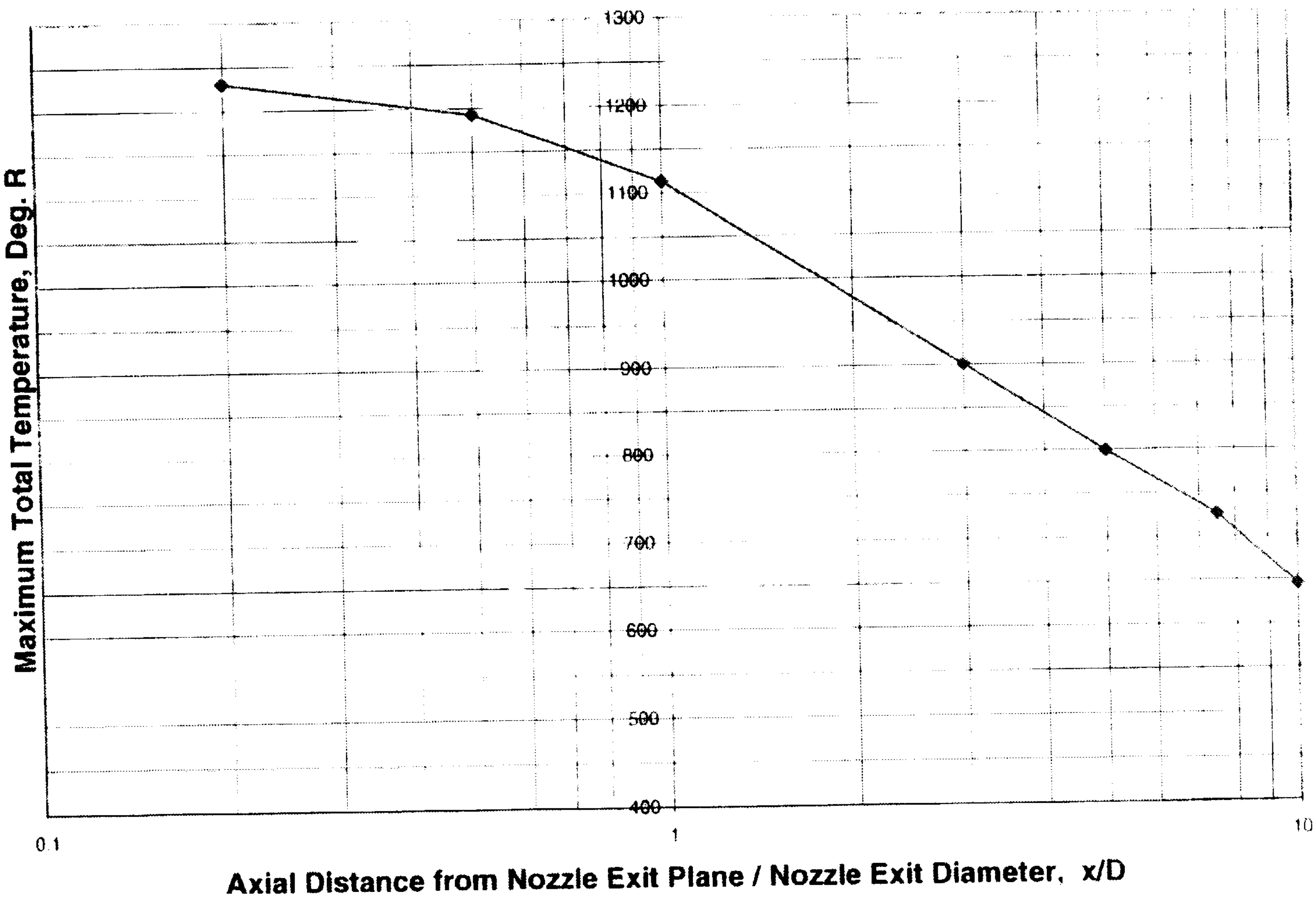


FIGURE 62

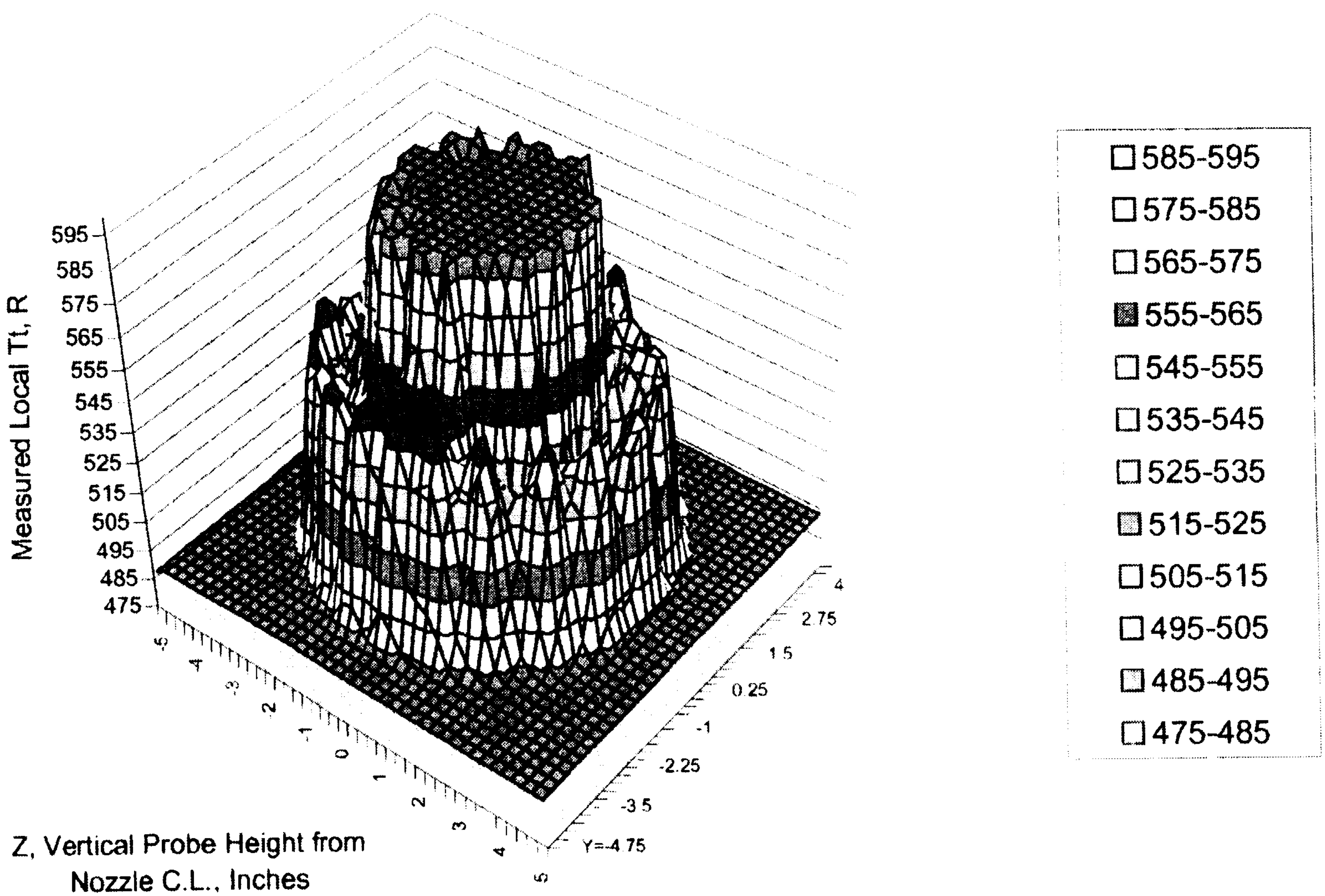
Maximum "Centerline" Total Temperature Decay, 20L Deep Mixer, 100% Nozzle Length, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg #'s TT560, TT559, TT561, TT558, TT549, TT548, TT547



D. Baker, 7/22/97; FILE: CLINETT1.xls

FIGURE 63 (a)

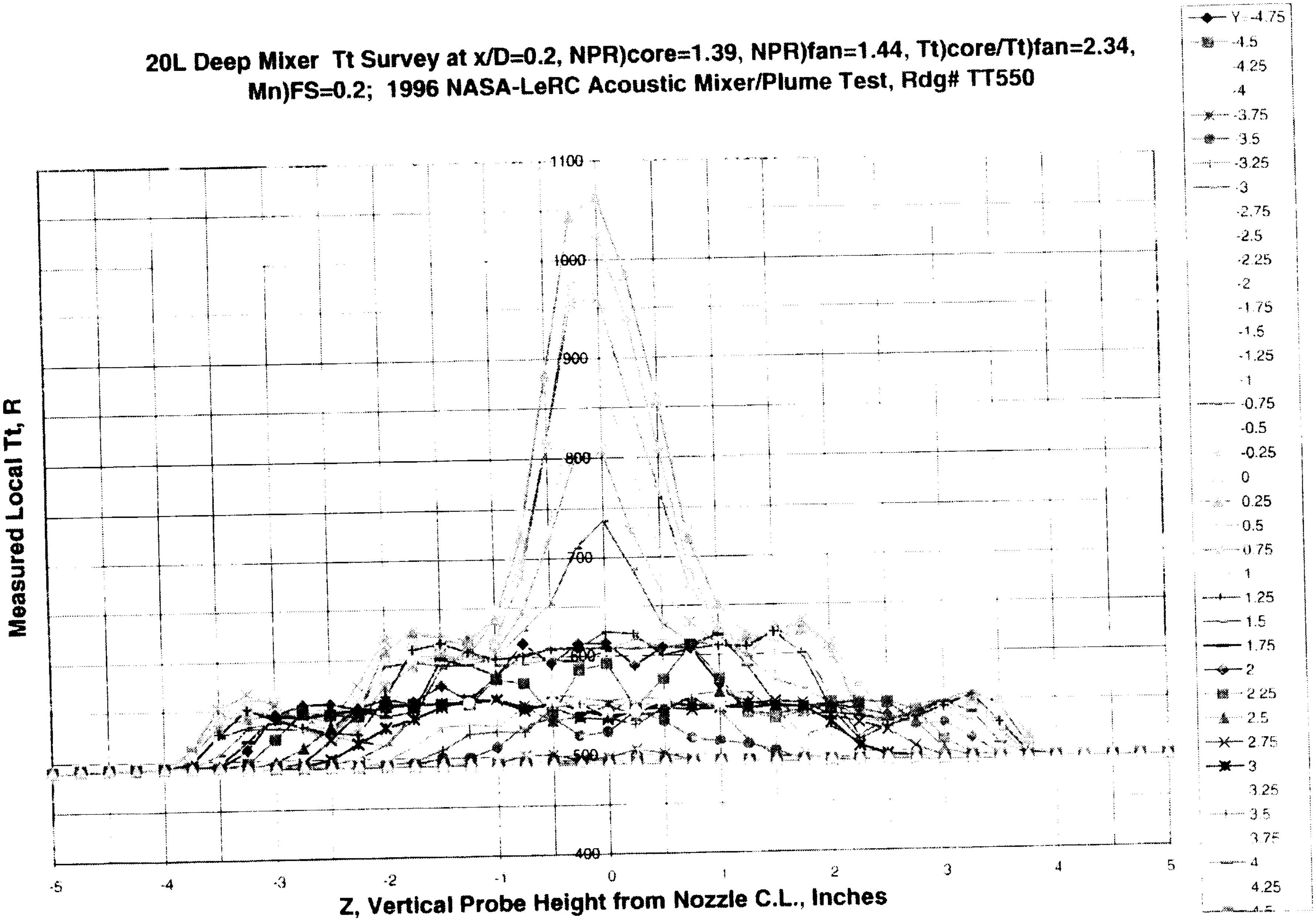
Figure 63(a). Zoom in for 20L Deep Mixer (20DH) Tt Survey at x/D=0.2. NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, Mn)FS=0.2; 1996 NASA-LeRC Acoustic Mixer/Plume Test, Rdg# TT550 [Highest Tt at center = 1085.3 deg. R]



D. Baker 8/12/97; File: XTT550.xls

FIGURE 63 (b)

20L Deep Mixer Tt Survey at x/D=0.2, NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, Mn)FS=0.2; 1996 NASA-LeRC Acoustic Mixer/Plume Test, Rdg# TT550



D. Baker 8/12/97; File: XTT550.xls

Figure 64(a). 20L Deep Mixer (20DH), Total Temperature Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62Tt)core/Tt)fan, o.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT560 [Max. Tt = 1230.4 deg R]

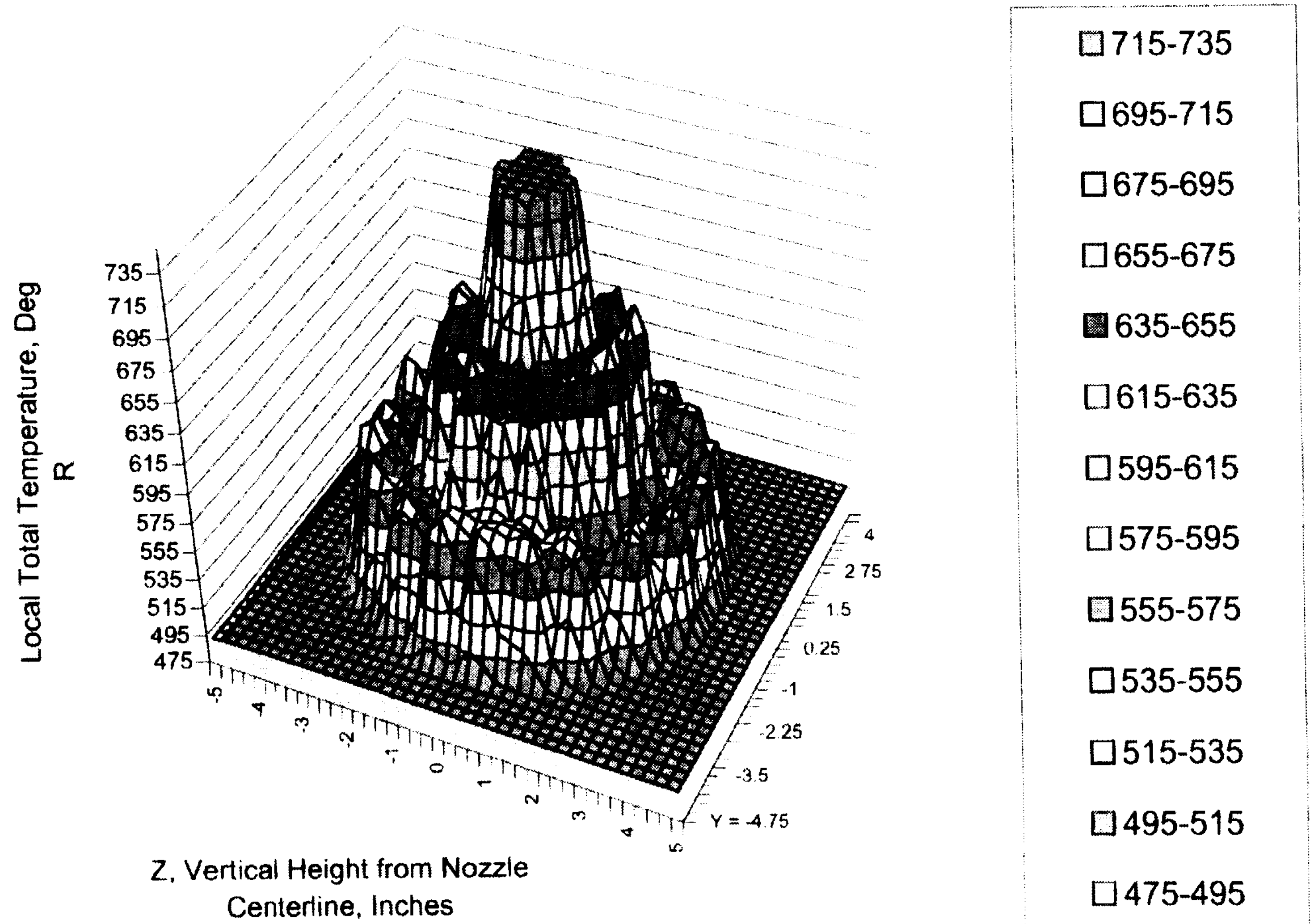
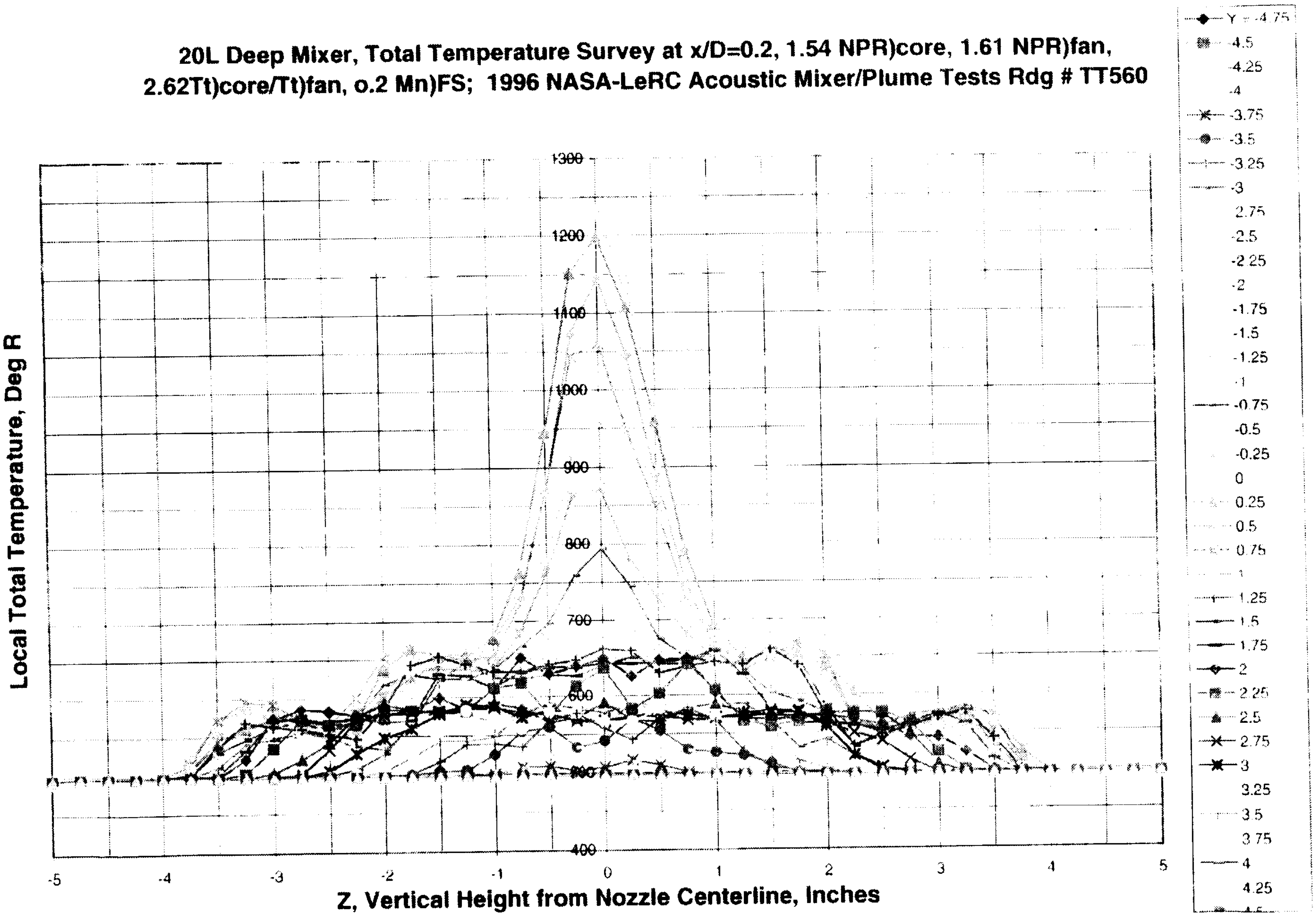


FIGURE 64 (b)

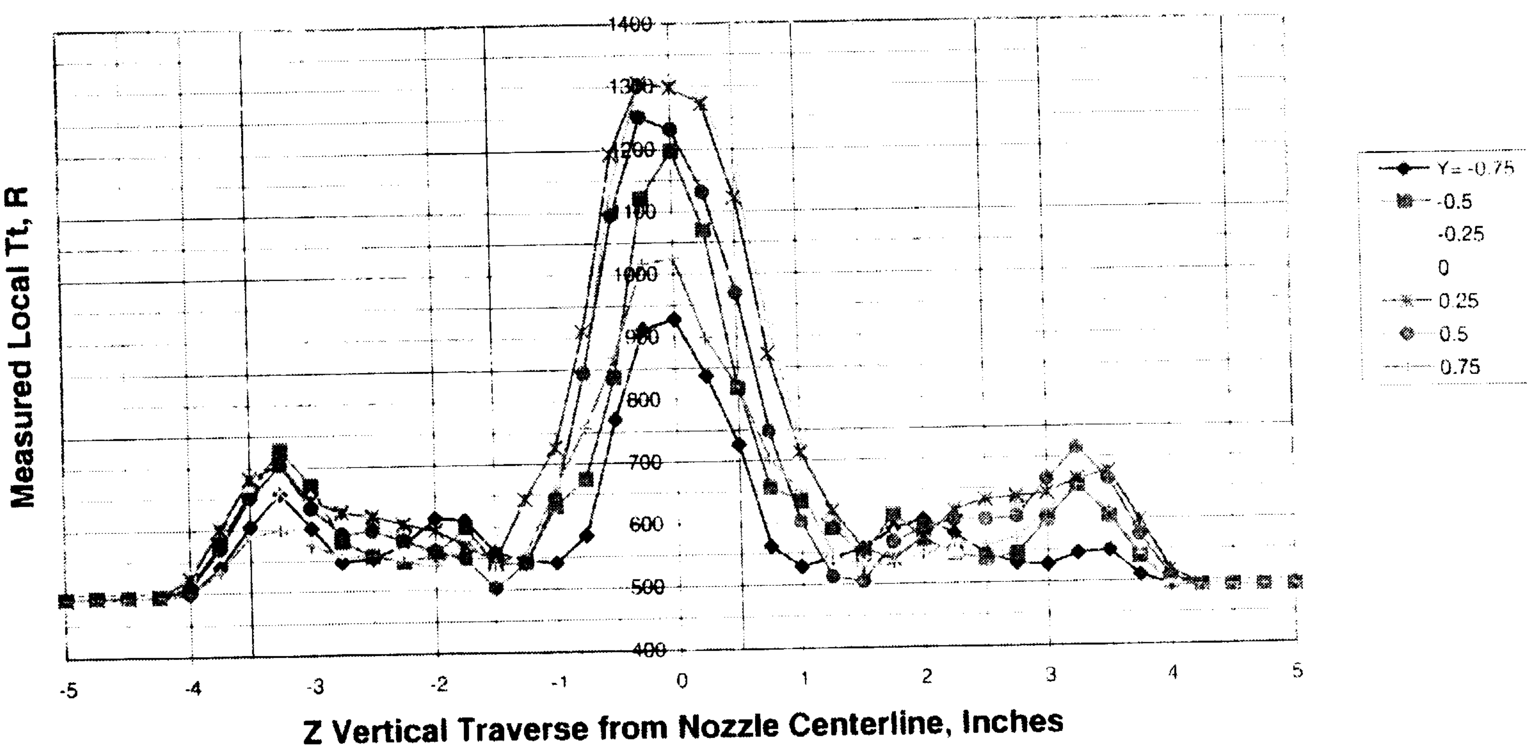
20L Deep Mixer, Total Temperature Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62Tt)core/Tt)fan, o.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT560



D. Baker, 7/21/97; FILE: XTT560.xls

FIGURE 65

Internal Tongue Mixer - Tt survey at x/D=0.2, NPR)core=1.54, NPR)fan=1.61, Mn)FS=0.2, NASA-LeRC 1996 Acoustic Mixer/Plume Tests, Rdg # TT510



D. Baker 3/12/97 FILE: XXTT510.xls

Figure 66(a). 20L Deep Mixer (20DH), Total Temperature Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62Tt)core/Tt)fan, o.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT560 [Max. Tt= 1230.4 degR]

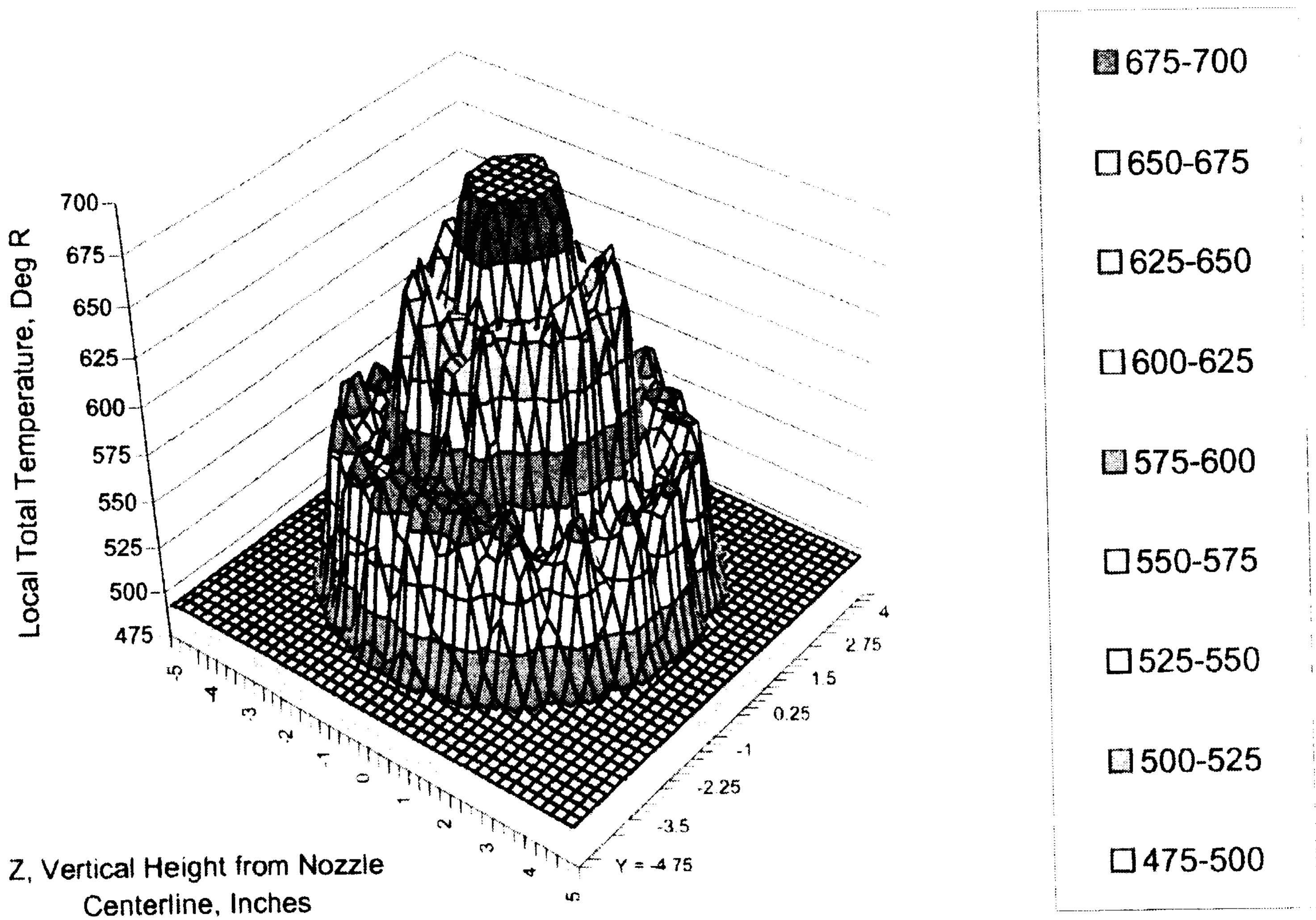
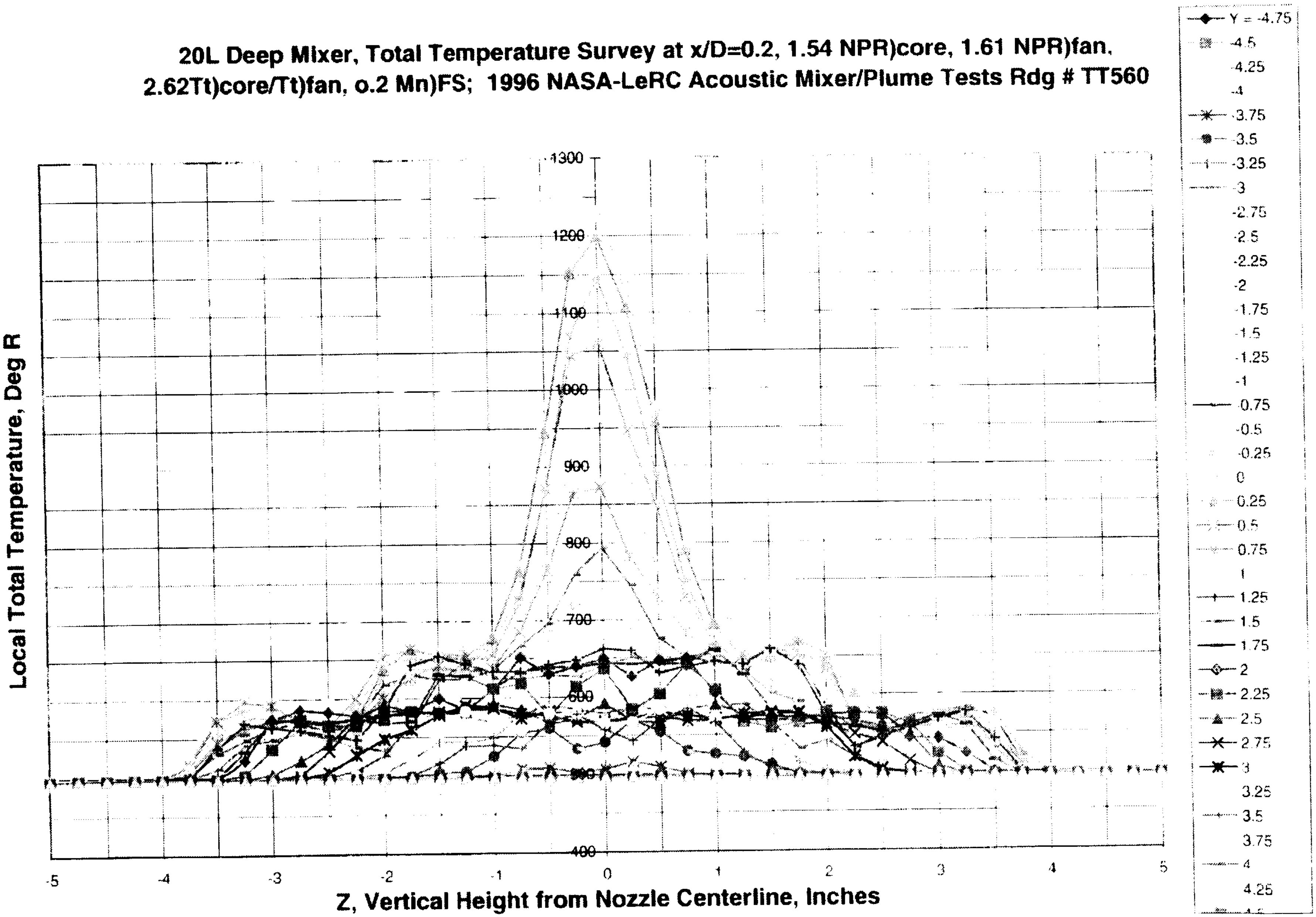


FIGURE 66(b)

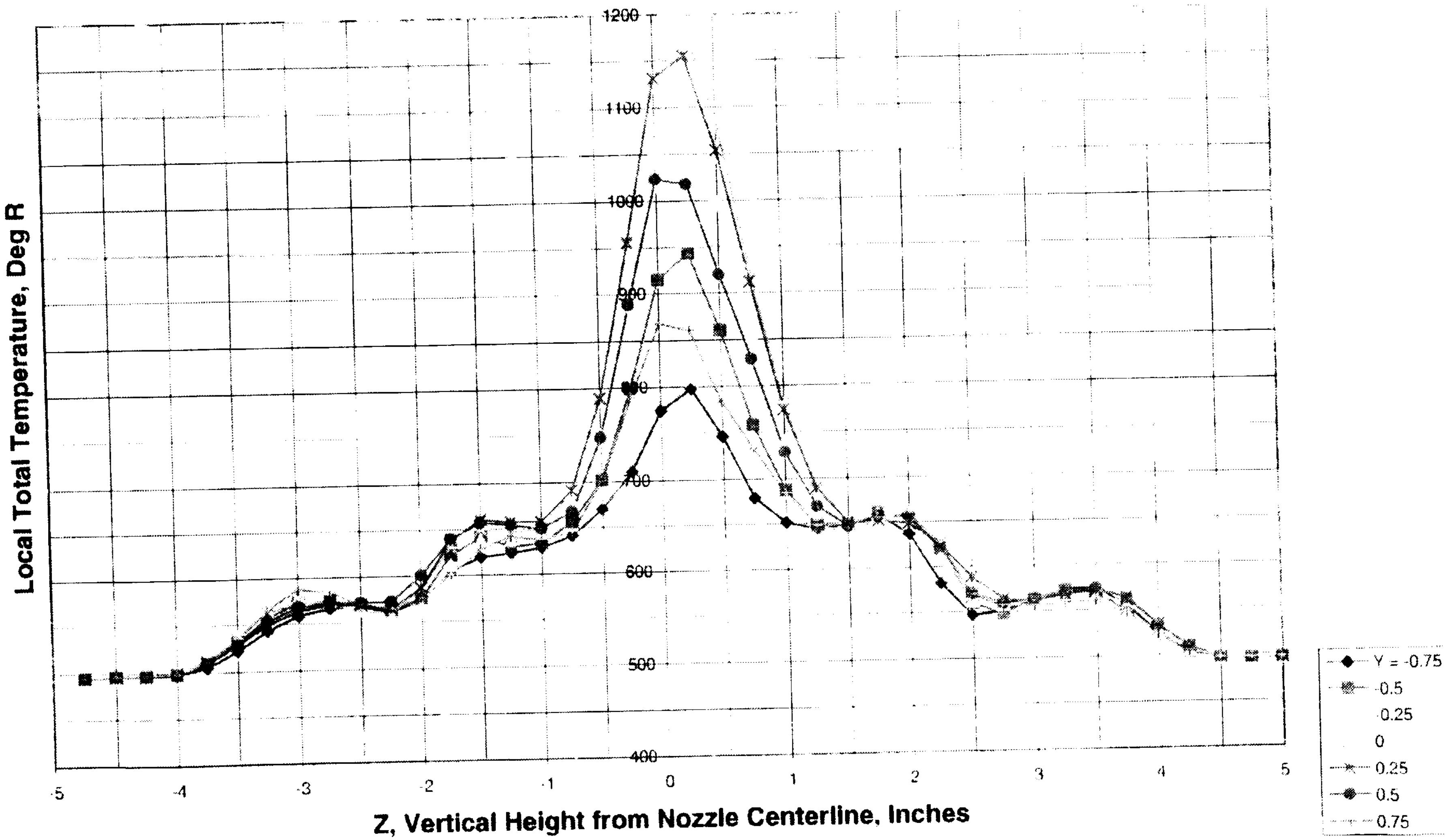
20L Deep Mixer, Total Temperature Survey at x/D=0.2, 1.54 NPR)core, 1.61 NPR)fan, 2.62Tt)core/Tt)fan, o.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT560



D. Baker, 7/21/97; FILE: XTT560.xls

FIGURE 67

20L Deep Mixer, 100% Nozzle Length, Tt Survey at x/D=0.5, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT559



D. Baker, 7/22/97: FILE: XTT559.xls

Figure 68(a). 20L Deep Mixer (20DH), 100% Nozzle Length, Tt Survey at x/D=1.0, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT561

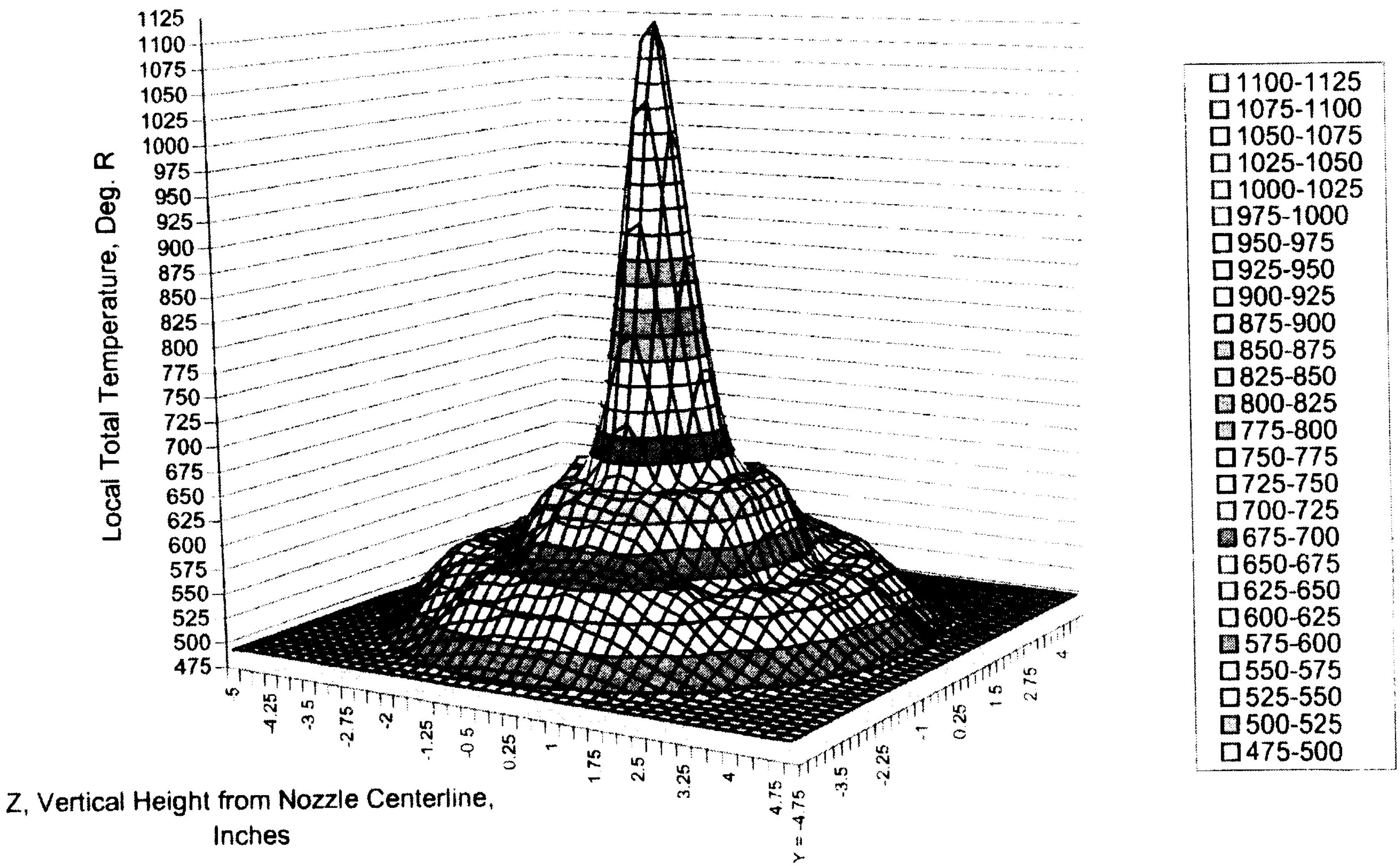
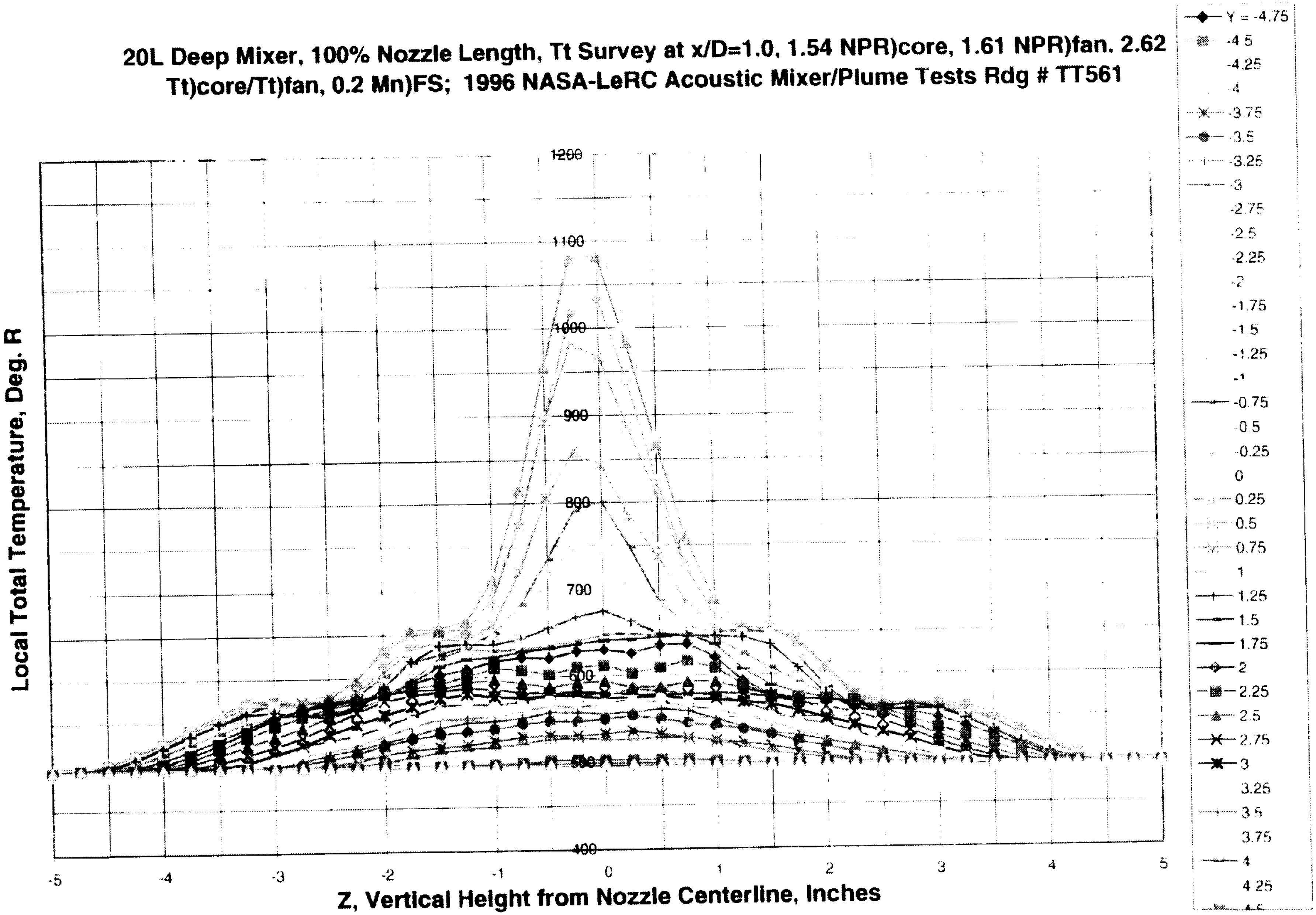
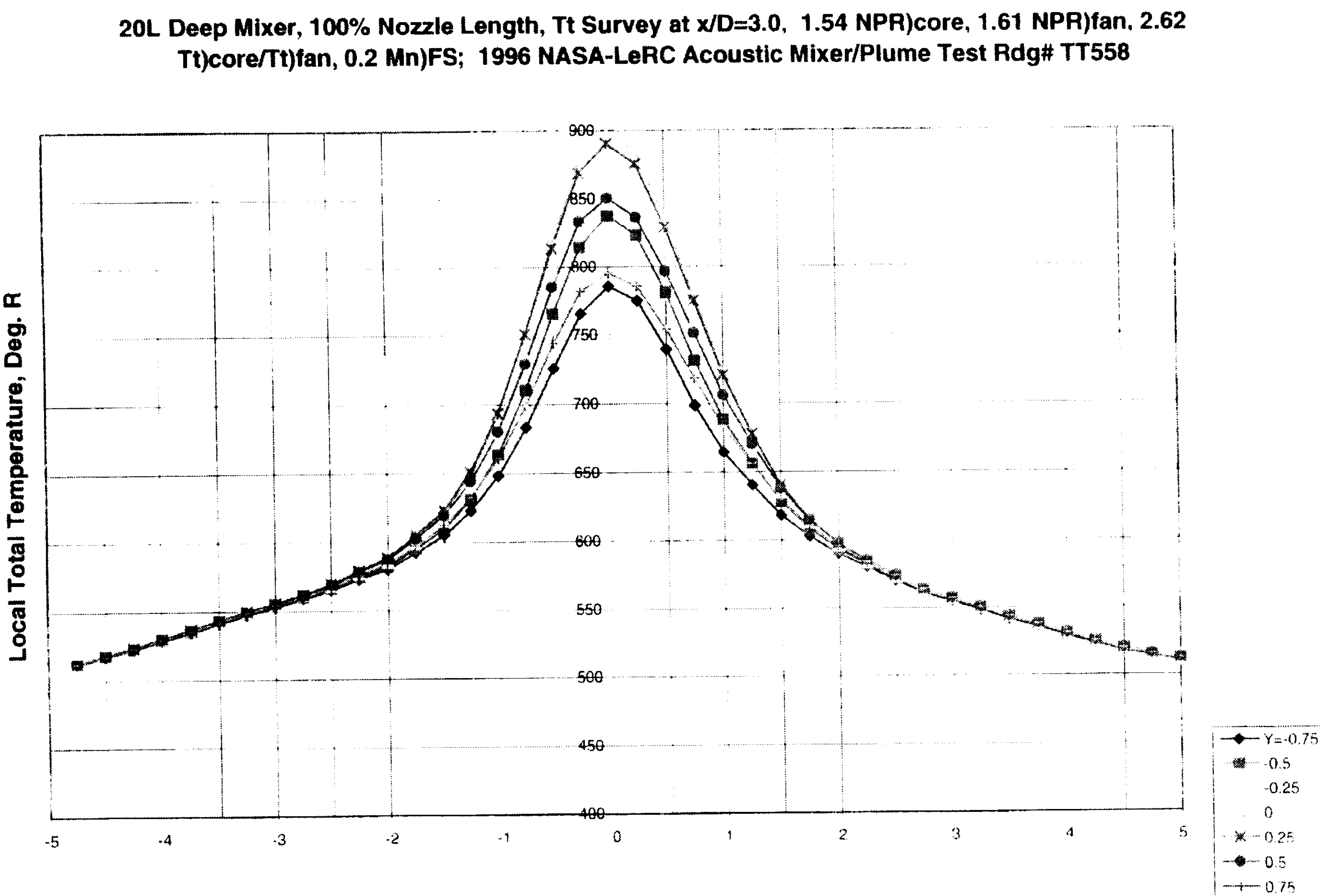


FIGURE 68(b)



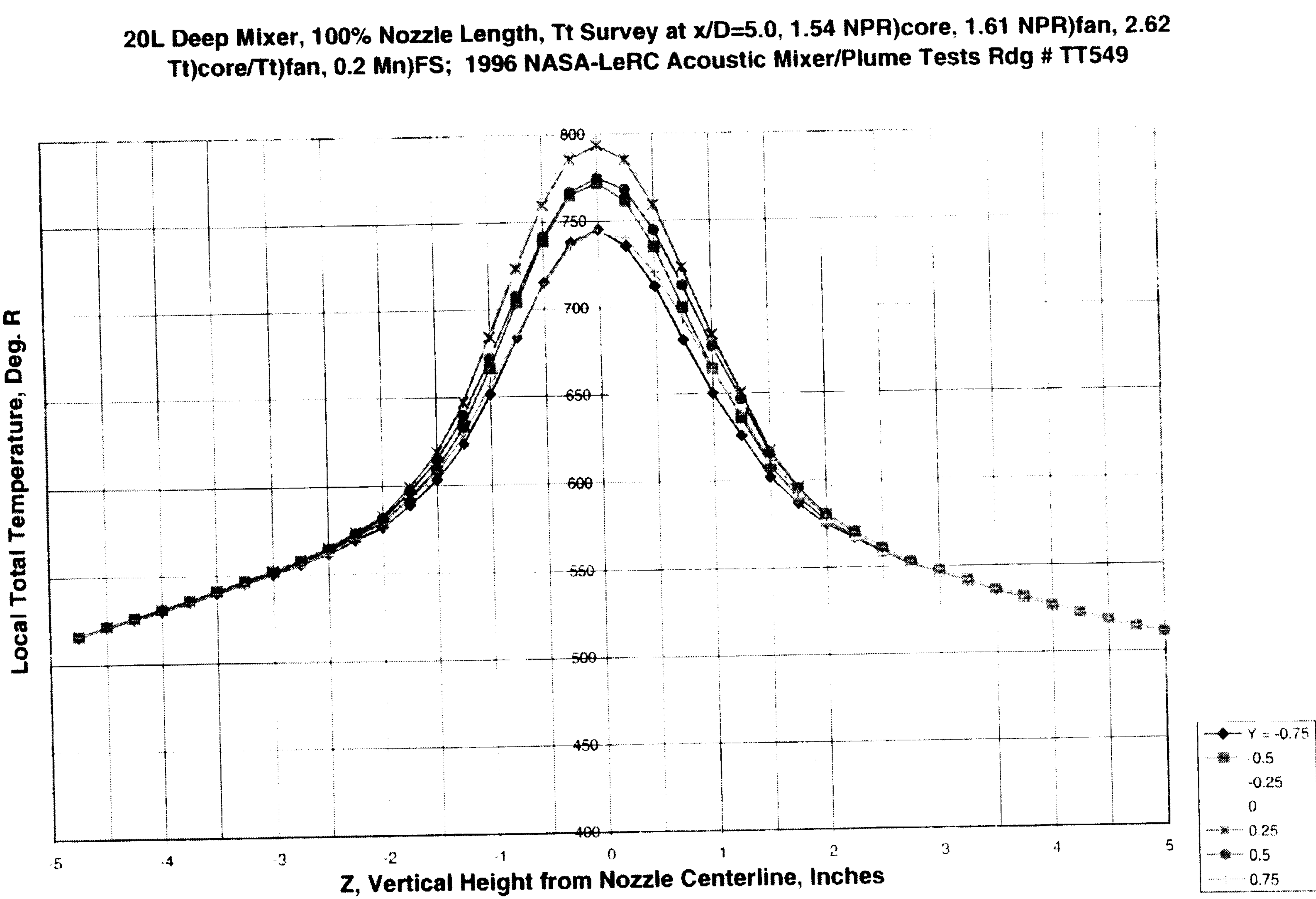
D. Baker, 7/22/97; FILE: XTT561.xls

FIGURE 69



D. Baker. 8/12/97: FILE:XTT558.xls

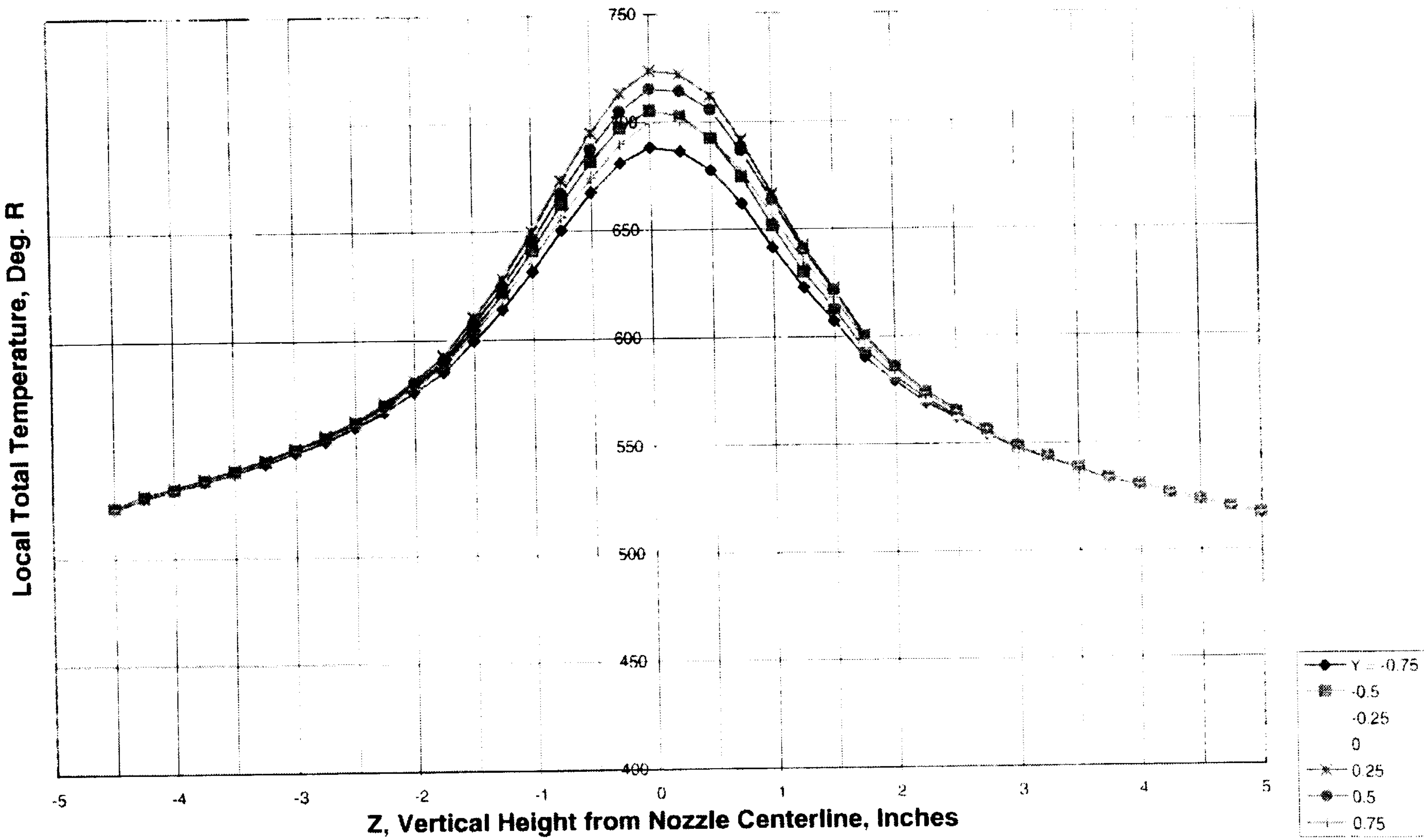
FIGURE 70



D. Baker. 7/22/97; FILE: XTT549.xls

FIGURE 71

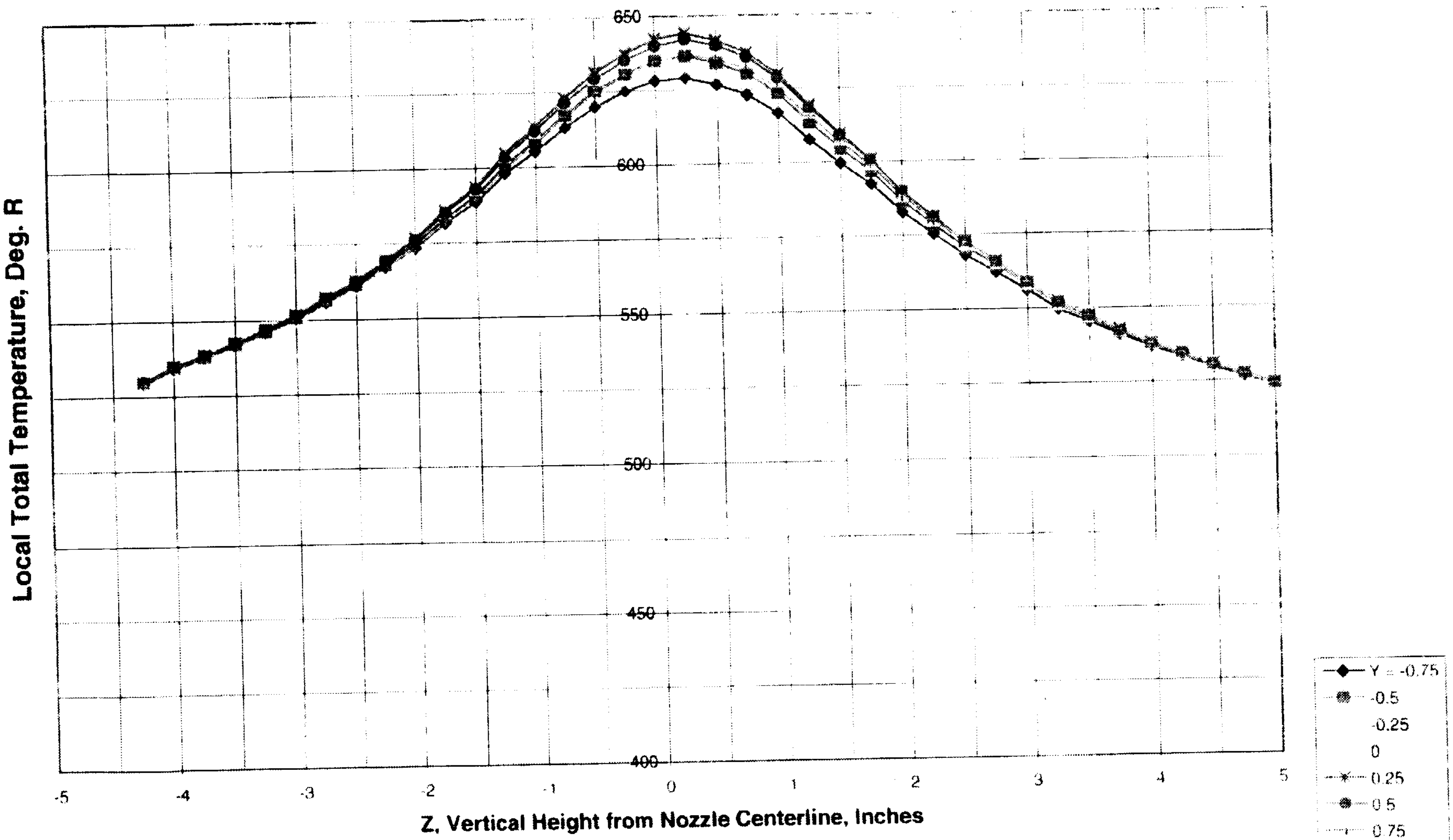
20L Deep Mixer, 100% Nozzle Length, Tt Survey at x/D=7.5, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT548



D. Baker, 7/22/97: FILE: XTT548.xls

FIGURE 72

20L Deep Mixer, 100% Nozzle Length, Tt Survey at x/D=10, 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # TT547



D. Baker, 7/22/97; FILE: XTT547.xls

Part 2

Additional Plume Survey Data

Von D. Baker

SUMMARY

The purpose of this part is to present the second phase of the additional plume data analysis which included: (1) non-dimensional plume total temperature and velocity comparisons, (2) selected total temperature color contour plots, and (3) comparisons of the earlier 1995 mixer plume temperature data with the 1996-97 plume temperature data.

The data, with pertinent comments, are presented in the following order:

1. Non-dimensional total temperature and velocity comparisons
   1.1 Maximum "centerline" Tt / ideal mixed Tt for all mixers
   1.2 Maximum "centerline" velocity/ ideal mixed velocity
   1.3 "η" temperature parameter for selected mixers at x/D=0.2
   1.4 "η" temperature parameter versus fan NPR at x/D=0.5

2. Total temperature comparisons from 1995 mixer plume tests

2. Total temperature contour plots for selected mixers and test conditions
   3.1 Contour plots for selected mixers from 1996-97 plume tests
   3.2 Contour plots for selected mixers from 1995 plume tests

4. Conclusions

For the 1995 tests described in section 2.0, the rake assembly consisted of total pressure (Pt) and total temperature (Tt) probes but no static pressure (Ps) probes. Also, the nozzle used in the 1995 tests is the same as that used for the 1996-97 tests. Similarly, the nozzle/mixer test conditions are also described in Part 1 for the 1996-97 tests. The test conditions for the 1995 tests described in section 2.0 are given in Table 1. As in Part 1, to simplify the discussion, the test conditions are hereafter referred to by the core NPR values.

1.0 Non-dimensional total temperature and velocity comparisons

The maximum measured, i.e. "centerline" total temperature was non-dimensionalized by dividing by the $T_{t\ \mathrm{ideal\ mixed}}$ where, from the energy equation:

$$T_{tidealmixed} = \frac{(m^* c_p {}^* T_t)_{core} + (m^* c_p {}^* T_t)_{fan}}{(m_{core} + m_{fan})^* c_{p-mixed}},$$

m = weight flow rate, c_p = specific heat at constant pressure.

1.1 Maximum "centerline" Tt / ideal mixed Tt for all mixers

Fig. 1 shows the comparison of the maximum total temperature divided by ideal mixed total temperature versus x/D for all of the 1996-97 mixers at the 1.39 NPR)core condition. This shows the 20 lobe deep mixer (20DH) to have a low temperature ratio, but, as noted in Part 1, the 20 lobe unscalloped mixer (20UH) shows the lowest ratio but it only has data at three x/D values. Note that the ratios for all mixers tend to converge at x/D values near 10 which implies the location in the plume where centerline temperatures approach the ideal

mixed temperature. Fig. 2 shows similar trends for the 20 lobe deep mixer (20DH) for the 1.54 NPR)core condition. Fig. 3 shows a typical cross-section cut of the temperature ratio through the plume at x/D=0.2 for the Internal Tongue Mixer (12TH) which shows the same profile characteristics as reported previously in Part 1, except for being normalized with respect to the ideal mixed velocity.

Fig. 4 shows the same trend as Fig. 1 except for the higher operating condition of 1.74 NPR)core which causes the peak temperature ratio levels to be higher than shown in Fig. 1. Note that the temperature ratio for all mixers again approaches 1 near x/D of 10.

Fig. 5 illustrates schematically that the ideal mixed temperature is not the final equilibrium temperature for the plume. While the data shows that the ideal mixed temperature is reached at an x/D value approaching 10, the plume temperature must eventually reach the free stream ambient sink temperature to reach thermal equilibrium. While no plume temperature data was taken beyond x/D of 10, it is assumed that the plume temperature would exponentially decay to the sink temperature in a manner similar to that shown in Fig. 5, although the slope of the extrapolation may be flatter than shown.

1.2 Maximum "centerline' velocity / ideal mixed velocity

Turning now to the non-dimensional maximum "centerline" velocity comparisons, an ideal mixed velocity was defined as follows:

1. Calculate the mass flow rate averaged mixed NPR:

$$NPR_{mixed} = \frac{(m * NPR)_{core} + (m * NPR)_{fan}}{(m_{core} + m_{fan})}$$

2. Calculate isentropic velocity function from NPR) mixed and gamma)mixed, and calculated ideal mixed velocity using previously calculated Tt)mixed:

$$NPR_{mixed} \Rightarrow V_{ideal} / \sqrt{T_{t-mixed}}$$

$$V_{ideal} = V_{ideal} / \sqrt{T_{t-mixed}} * \sqrt{T_{t-mixed}}$$

where V_{ideal} is defined as the ideal "mixed" velocity.

It is noted that other definitions of "ideal mixed" velocity could be defined. For example, the ideal unmixed velocity of each stream can be calculated separately and then mass averaged to obtain a "mixed" ideal velocity. Another approach would be to calculate $m\sqrt{T_t} / (P_s A_{eff})$ for the mixed stream at the nozzle exit plane to obtain the velocity function which is then converted to ideal mixed velocity using the ideal mixed temperature as per above step 2. The "ideal mixed" velocity calculation method selected, while not claiming to be rigorous, is felt to be adequate for relative comparisons.

Figs. 6 and 7 show the measured maximum velocity divided by ideal mixed velocity for the 20 lobe deep mixer (20DH) and 12 lobe mixer with cutouts (12CL) at the 1.54 and 1.74 NPR)core operating conditions respectively. A characteristic decay similar to the non-dimensional Tt decay discussed previously is noted. The 20 lobe deep mixer (20DH) shows lower values compared to the 12 lobe mixer with cutouts (12CL), but, again the two mixers tend to converge near x/D values approaching 10. The curves tend to cross the ideal velocity (scale reading of 1.00) at x/D values of around 8.0, as

opposed to the previous temperature comparisons showing ideal mixed temperature levels being attained near x/D of 10.0

1.3 "η" temperature parameter for selected mixers at x/D=0.2

The non-dimensional total temperature parameter, η, is defined as:

$$\eta = \frac{(T_{t-measured} - T_{t-fan})}{(T_{t-core} - T_{t-fan})}$$

η is thus seen to vary between 0.0 and 1.0 since the measured Tt will either be equal to or greater than the fan Tt or equal to or less than the core Tt. This parameter is used by ASE FluiDyne as a non-dimensionalizing temperature "tracing" parameter in correlating data from dual flow model tests involving mixers, thrust-reversers, etc, to full-scale conditions.

If, for a given configuration, η is known from a model test, a corresponding full-scale "measured" temperature can be solved for by substituting into the η equation the corresponding full-scale core and fan Tt values provided the full scale unit is operated at the same NPR and BPR values as the model. Thus, η-correlations are of interest for applications of the test mixers to other operating conditions. It should be noted that for the 1996-97 NASA plume data shown here, the temperature data was obtained with an external free stream flow simulation of 0.2 Mach number. Thus any application of the η values to other mixer flow conditions would implicitly include this free stream simulation. The 0.2 Mach number external flow effect on plume decay does not appear to be highly significant in the near-field plume for x/D values up to 10.0 except locally along the outer plume mixing boundary.

Figs. 8 through 10 show the η distributions for the mixer with cutouts (12CL), at 100% and 50% nozzle length, and the internal tongue mixer (12TH) at the maximum test condition of NPR)core = 1.74 at x/D = 0.2. The 20 lobe deep mixer (20DH) was not tested at this condition at x/D = 0.2, but was tested at x/D = 0.5 as shown in Fig. 11. Previous comparisons of the Tt distributions from Part 1 do not show significant Tt decay between x/D of 0.2 and 0.5; thus, including Fig 11 with the other data comparisons at x/D of 0.2 is probably valid. In general, the η distributions reflect the same trends exhibited by the Tt distributions reported earlier in Part 1. This includes a rapid center spike, indicating temperatures approaching the core temperature near the centerline of the mixer, with an outer symmetrical "valley" profile followed by smaller "peaks". The mixer with cutouts (Figs. 8 and 9) exhibiting the highest amplitude from "valley" to "peak", followed by the internal tongue mixer (Fig. 10). The outer peaks and valleys were significantly reduced in amplitude for the 20 lobe deep mixer (20DH) (Fig. 11), again reflecting the previous Tt trends.

Fig. 12 shows a completely non-dimensionalized η plot for the internal tongue mixer where both the Z and Y dimensions have been normalized by the nozzle diameter, D. Although the η values in Fig. 12 are for NPR)core = 1.54, the distribution trends are very similar to those shown in Fig. 10 for NPR)core = 1.74.

Figs. 13 and 14 show η distributions at the NPR)core = 1.39 condition for the 20 lobe deep scalloped mixer (20DH) and 20 lobe unscalloped mixer (20UH) at x/D=0.2. Note that the unscalloped mixer, 20UH, (Fig. 14)

shows a slightly lower η value (lower measured Tt) at the centerline, as discussed earlier, compared to the 20 lobe deep scalloped mixer (20DH) (Fig. 14); however, note also that the η distributions in the annular areas where the mixers are located show less mixing occurring for the unscalloped mixer (20UH) (more outer peak amplitude) compared to the deep scalloped mixer (20DH).

Comparing Figs. 13 and 14, by inspection it would appear that an integrated average η value (area under the curve) for the deep scalloped mixer (Fig. 13) would be less than the corresponding average η for the unscalloped mixer (Fig. 14). If true, then the 20 lobe deep mixer (20DH) would exhibit greater mixing for all "outer" annular zones (Z values greater than + or - 1.0 inch) except near the centerline of the mixer.

While the deeply scalloped mixer (20DH) is intuitively believed to have better mixing capability than the unscalloped mixer (20UH), a presumption which is also suggested by the η comparisons in the outer zones of the plume, the reason for 20DH mixer's slightly higher maximum centerline η (and Tt) values is not immediately obvious.

It should also be noted that the small negative η values shown on the above figures is the result of temperature survey measurements extending outside the plume and into the external free stream which has a measured Tt value slightly lower than the fan stream Tt. The cross-over between negative and positive η values is thus indicative of the approximate location of the plume outer boundary.

1.4 "η" temperature parameter versus fan NPR at x/D = 0.5

Fig. 15 compares the effect of the fan NPR on the maximum centerline η value at x/D=0.5 for the 20 lobe deep mixer (20DH), internal tongue mixer (12TH)and 12 lobe mixer with cutouts (12CL)s. Note that the core NPR and Tt)core/Tt)fan ratios are also changing according to the scheduled test values as the fan NPR changes. Thus, the η values plotted reflect the combined effect of all three flow variables changing simultaneously along a scheduled characteristic to simulate the engine thrust variation as described in Part 1, page 3. If the fan and core NPR values had been held constant, and only the Tt ratio varied, the η values would have been expected to be essentially constant in keeping with the non-dimensional characteristic of the η parameter.

In terms of maximum η levels, Fig. 15 basically reflects the same trends seen previously in the Tt plots, i.e., the 12 lobe mixer with cutouts (12CL) has the highest η values, the 20 lobe deep the lowest, and the tongue mixer being slightly lower than the 12 lobe mixer with cutouts (12CL).

2. Total temperature comparisons from 1995 mixer tests

During September, 1995 tests were conducted at NASA-Lewis to measure plume Pt, and Tt data, and velocity (from LDV measurements), for the four mixers listed in Table II. Only the total temperature data was examined and reported below.

The 1995 tests used the same 100% length nozzle with 7.250 inch exit throat diameter as used in the 1996-97 plume testing. Only one set of flow condition was tested for the 1995 tests as given in Table I, which is the

same as the "Cycle F" conditions tested in 1996-97 except for the free stream Mach number values of 0.1 and 0.3. compared to 0.0 and 0.2 for the 1996-97 tests.

The 1996-97 Plume tests included the five mixers listed in Table II of Part 1. The 1995 Plume tests included four mixers as listed inn Table II below.

The 1995 plume tests were of limited scope compared to the 1996-97 tests, and do not contain as complete a database. For example, the plume was only surveyed to an x/D value of 4.0 which is basically just outside the potential core region. Thus essentially no significant data were obtained to define the plume decay characteristics. Also, there appears to be an alignment problem between the nozzle centerline and the corresponding center origin of the Tt measurements which is obvious when viewing the x/D profiles which are off-set approximately 1 to 1.5 inches from the center of the measured Tt array.

Still the maximum Tt values were recorded, however, which minimizes the effect of this. Also, the Z dimension was not referenced from the nozzle centerline, but from the end of the Tt rake. This orientation is shown on each of the Tt plots presented below. The Y values are defined the same as in the Part 1 data, .i.e., the horizontal distance from the center of the array, which, as note above, may not be in alignment with the nozzle centerline. While this rake misalignment is unfortunate and frustrating, it is still possible to get a reasonable recording of the Tt profiles at each Y value except near the right edge of the plots where the data is cut off.

Figs 16 through 20 show Tt profiles for the confluent mixer at x/D values of 0.1, 0.5, 1.0, and 4.0. As expected, these profiles show a basically symmetrical "pipe flow" profile for the hot core region dropping off to the cold fan Tt levels in the outer annulus areas. These profiles are, of course, significantly different than the typical lobe mixer profiles that are shown in Part 1. Fig 19 shows the Tt profile at x/D of 4.0, which has become more parabolic and symmetrical. Fig 20 is the same condition but a re-peat point which shows good repeatability in the data.

Figs. 21 through 24 show Tt profiles at the same conditions as above for the 12 lobe mixer with cutouts (12CL). The profiles are similar from x/D of 0.1 to 1.0 exhibiting the high temperature center spike superimposed on the lower temperature peaks and valleys near the mixer as seen earlier in Part 1. At x/D of 4.0, fig. 24, note the similarity in profile parabolic shape with the data in fig. 20 for the confluent mixer, but note that the former has a significantly lower maximum centerline Tt and a flatter parabolic shape due to the mixing enhancement from the lobes.

The mixer with cutouts from the 1995 plume testing was also re-tested during the 1996-97 plume testing. The repeatability of this re-testing is compared at x/D=0.5 in Fig. 22 for the 1995 test and in Fig. 25 for the 1996-97 test. The free stream Mach number was 0.3 for the 1995 test data in Fig. 22, and 0.2 for the 1996-97 data in Fig. 25. Also, of course, the Z dimension to the Tt probe is referenced differently in the two tests as mentioned earlier which means the data in Fig. 22 is not centered correctly relative to the nozzle centerline. However, comparing the two sets of data it is noted that the peak centerline Tt values are approximately 1210 °R for the 1995 test and 1171 °R for the 1996-97 tests. The ambient Tt was approximately 46 degrees hotter for the 1995 tests, but the free stream Mach number was 0.1 higher. Both differences may have

some influence on the max. temperature differences. The Tt profiles appear to be similar in both tests in regard to the outer peaks but some differences are noted in the outer valleys, and at other off-center Y values, that are not immediately understood and are noted here for future reference.

Figures 26 through 29 show Tt profiles for the 12 lobe unscalloped mixer (12UH) at x/D values of 0.1, 0.5, 1.0, and 4.0. Similar trends as noted above for the 12 lobe baseline (12CL) are also seen for the 12 lobe unscalloped mixer (12UH) for x/D values up to 1.0 except that 12UH shows lower maximum Tt values. A more significant profile difference was noted at x/D of 4.0, comparing Fig. 24 with Fig 29, wherein the 12 lobe unscalloped mixer (12UH) shows a convex or "bowed" out profile for Z distances outside the central high temperature spike and the 12 baseline shows the concave or parabolic profile in the same region. Also a nonsymmetrical "dip" in the left side of the 12 lobe unscalloped profile, in Fig. 29, where the center spike region begins to develop appears to be a local anomaly in the data.

Figures 31 through 33 show Tt profiles for the 16 lobe unscalloped mixer at x/D values of 0.1, 0.5, 1.0, and 4.0. The data shows the usual center peak as seen in the other lobe mixers but at a lower Tt maximum value than the 12 lobe baseline or 12 lobe unscalloped mixer (12UH). A more complex peak and valley profile sub-structure is noted, presumably due to the increased number of lobes, for x/D values up to 1.0. However, at the x/D value of 4.0, Fig. 33, the profile has a similarity to the convex profile noted for the 12 lobe unscalloped mixer (12UH), Fig. 29.

Figure 34 summarizes the maximum "centerline" Tt decay for the 1995 NASA test mixers for x/D values up to the maximum tested of 4.0. The significant Tt reduction provided by the lobe "forced" mixers over the confluent "free" mixer is apparent from Fig 34. The 16 lobe unscalloped mixer (16UH) had the lowest maximum Tt values being significantly lower than the 12 lobe mixer with cutouts (12CL). The corresponding Tt decay for the 12 lobe unscalloped mixer (12UH) was about midway between the 12 lobe baseline mixer with cutouts (12CL) and 16 lobe unscalloped mixers. For comparison, the corresponding data for the 1996-97 NASA LeRC tests are shown in Fig.1 of Part 1.

2.0 Total temperature contour plots for selected mixers and test conditions

The X-Y total temperature data grid for selected mixers and test conditions was converted to an R-theta polar grid by processing the NASA data using the Field View program. Some interpolation of the data field is required, which is done by Field View, to fill in the required polar coordinates from the rectangular coordinates. The results of this conversion are contour plots of total temperature taken in a perpendicular "slice" across the plume as viewed looking downstream in the direction of flow. The temperature contours on these plots are thus more easily identifiable with the corresponding mixer lobe geometry. It should also be noted that the contour plots are presented in degrees F whereas all other plume temperature plots in this report are in degrees R.

3.1 Contour plots for selected mixers from 1996-97 plume tests

Figs 35 through 41 show total temperature contour plots for the 1996-97 NASA test mixers. Figs 35 through 37 show the data for the "full" survey taken at x/D=0.2 at the

1.74 NPR)core condition for the 12 lobe baseline (12CL) with 100% length nozzle, 12 lobe baseline (12CL) with 50% length nozzle, and the internal tongue mixer (12TH). Also superimposed on the contour plot is the nozzle exit diameter circle of 7.25 inches for reference.

Figs 35 and 36 readily show the spatial orientation of the mixer lobes and the center hot zone near the centerline for the 12 lobe mixer with cutouts (12CL). The temperature variation between the hot and cold side of the lobes, the relative degree of mixing that has occurred in the outer portions of the flow-field, and lack of mixing in the very central portion of the flow-field can be deduced from the temperature contours. Fig 36, for the shorter 50% nozzle length, appears to show more radial higher temperature zones between the lobes suggesting less mixing than that shown for the 100% nozzle length in Fig. 35. Fig. 37 shows similar data for the 12 pair internal tongue mixer (12TH) but indicates the presence of 12 distinct contours from the tongues with somewhat different interior mixing contours.

Figs. 38 through 41 show the same type of contour data for the above mixers, plus the 20 lobe deep scalloped mixer (20DH), taken at x/D of 0.5. These data were taken for a "center" survey where the Y value was only traversed from -0.75 inches to +0.75 inches as opposed to a "full" survey. While this data is more limited in scope, it shows the same general patterns as noted above. Note that the contour data for the 20 lobe deep scalloped mixer (20DH), shown in Fig. 41, reflects apparent increased mixing by virtue of the coalescing of the discrete contours around the lobes into a more uniform temperature flow-field.

3.2 Contour plots for selected mixers from 1995 Plume tests

Figures 42 through 45 show total temperature contour plots for the confluent mixer, 12 lobe baseline mixer (12CL), 12 lobe unscalloped mixer (12UH), and 16 lobe unscalloped mixer (16UH) at the stated NPR)core condition respectively. The annular contours of the confluent mixer, shown in Fig. 42, are seen to be fundamentally less complex, and less mixed, than the typical contours generated by the lobed mixers as expected. Also, the 12 lobe unscalloped mixer (12UH) contours, Fig. 44, are different than those for the 12 lobe mixer with cutouts (12CL), Fig. 43. The 16 lobe unscalloped mixer's (16UH) lobe pattern is reflected in the contours shown in Fig 45 which appears to show more mixing penetration into the peak center area.

4.0 Conclusions

1. The 1996-97 AST mixer plume testing has generated a very significant database of plume measurements for several Rolls-Royce Allison mixers. Additional plume data, although more limited in scope, was also obtained for these mixers tested at NASA-LeRC during the first test series in 1995. A small portion of this combined database has been presented in this report, and in Part 1, and other plots of specific interest can be generated as required in the future.

2. The non-dimensional maximum "centerline" total temperature divided by ideal mixed temperature (temperature ratio) plotted versus x/D axial distance shows the same relative trends that were seen previously as reported in Ref.1. The 20 lobe deep scalloped mixer (20DH) and 20 lobe unscalloped mixer (20UH) show more rapid centerline decay than the 12 lobe baseline

mixer (12CL) or internal tongue mixer (12TH). The temperature ratios for all mixers tend to converge at x/D values approaching 10 which suggest the axial location where the centerline temperatures approach ideal mixed temperatures. (See figs. 1 and 4)

3. The ideal mixed temperature is not the final thermal equilibrium temperature of the plume which will continue to decrease, beyond x/D of approximately 10, to the free stream sink temperature. An extrapolation of the maximum centerline decay curve suggests that the ambient temperature level would be reached around x/D of 30, or higher, depending on the extrapolation used. (See fig. 5)

4. The non-dimensional maximum "centerline" velocity divided by the ideal mixed velocity (velocity ratio) plotted versus x/D shows a decay characteristic trend that is similar to the temperature ratio decay. It was observed that the velocity ratio plots tend to cross the ideal velocity level at x/D values near 8.0, whereas the temperature ratio tends to cross the ideal mixed temperature level at x/D values near 10 (See figs. 6 and 7).

5. The "η" non-dimensional total temperature parameter was generated for several test and mixer conditions. This data may be useful for predicting full scale engine plume temperatures for given fan and core temperatures (See figs. 8 through 15).

6. The 1995 plume data for 12CL, 12UH and 16UH mixers showed relative trends that are similar to those reported earlier for the 1996-97 plume data. As expected, the 1995 data also showed the significant mixing enhancement superiority, as gauged by the maximum "centerline" temperature decay, provided by the lobe mixers over the confluent mixer. (See fig. 34). The 16 lobe unscalloped mixer (16UH) exhibited the lowest maximum "centerline" total temperature levels of all mixers tested at a common comparison point (1.39 NPR core). It is presumed that this trend would also apply at the other test conditions although the data is missing to substantiate this. (See fig. 34 in this report and fig. 61 in Ref.1).

7. The total temperature contour plots are helpful in visualizing the spatial orientation of the individual plumes from the mixer lobes and the center hot zone that was typical for all of the lobe mixers (See figs. 35, 36 and 36). The basically annular temperature contours for the confluent mixer are, by contrast, seen to be fundamentally less complex and less mixed than those for the lobed mixers (See fig. 42).

8. When comparing the maximum centerline temperatures of the plume, the variation in bypass ratio from mixer to mixer should be taken into account. In most cases the variation is small; however, the 16 lobe unscalloped mixer (16UH) resulted in a relatively higher BPR compared to the other mixers tested. This mixer would have a larger percentage of cold fan flow, which would have a more diluting effect on the hot plume temperatures in the region of the plume beyond the central hot core. This would in turn tend to reduce the mixed temperature decay based on simple heat balance considerations. Thus the lowest centerline temperatures recorded for the 16 lobe unscalloped mixer (16UH) may have been primarily due to the higher BPR dilution effect rather than from superior mixer characteristics from the lobe design.

Table I Test Conditions for 1995 NASA Mixer Plume Tests

NPR)core	NPR)fan	Tt)core/Tt)fan	Mach No., M(fj)
1.39	1.44	2.34	0.1 & 0.3

Table II 1995 Rolls-Royce Allison/NASA Mixers

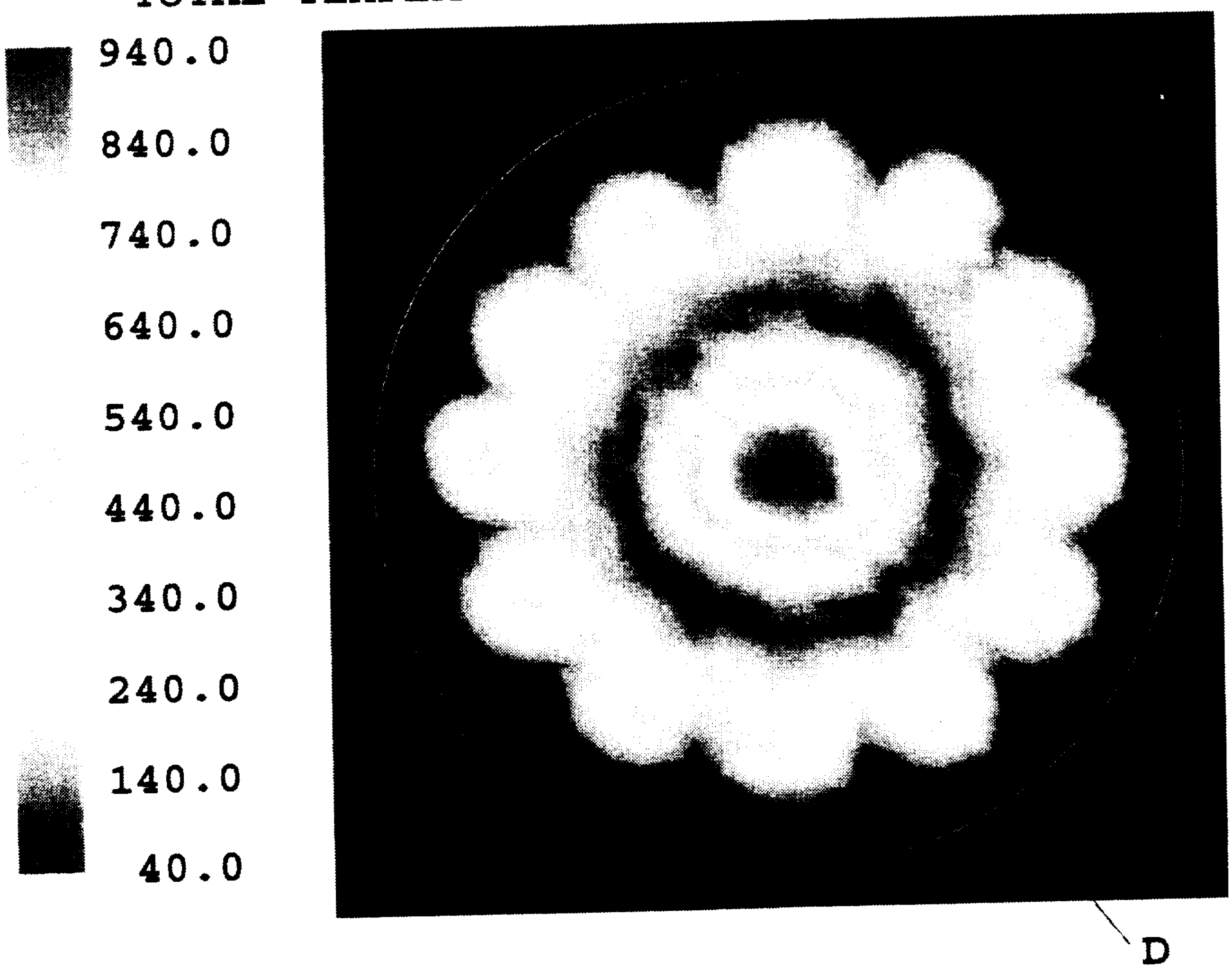
Mixer Description	Exhaust Nozzle Length	Comments
12 lobe baseline(*) (12CL)	100%	With lobe sidewall cut-outs
Confluent (CONF)	100%	
12 lobe Advanced (12UH)	100%	No scallops
16 lobe Acoustic (16UH)	100%	No scallops

(*) The 12 lobe Mixer with cutouts (12CL) was also re-tested during 1996-97 testing

FIGURE 1

12 LOBE BASELINE MIXER-100% NOZZLE LENGTH

TOTAL TEMPERATURE - F AT X/D = 0.2



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

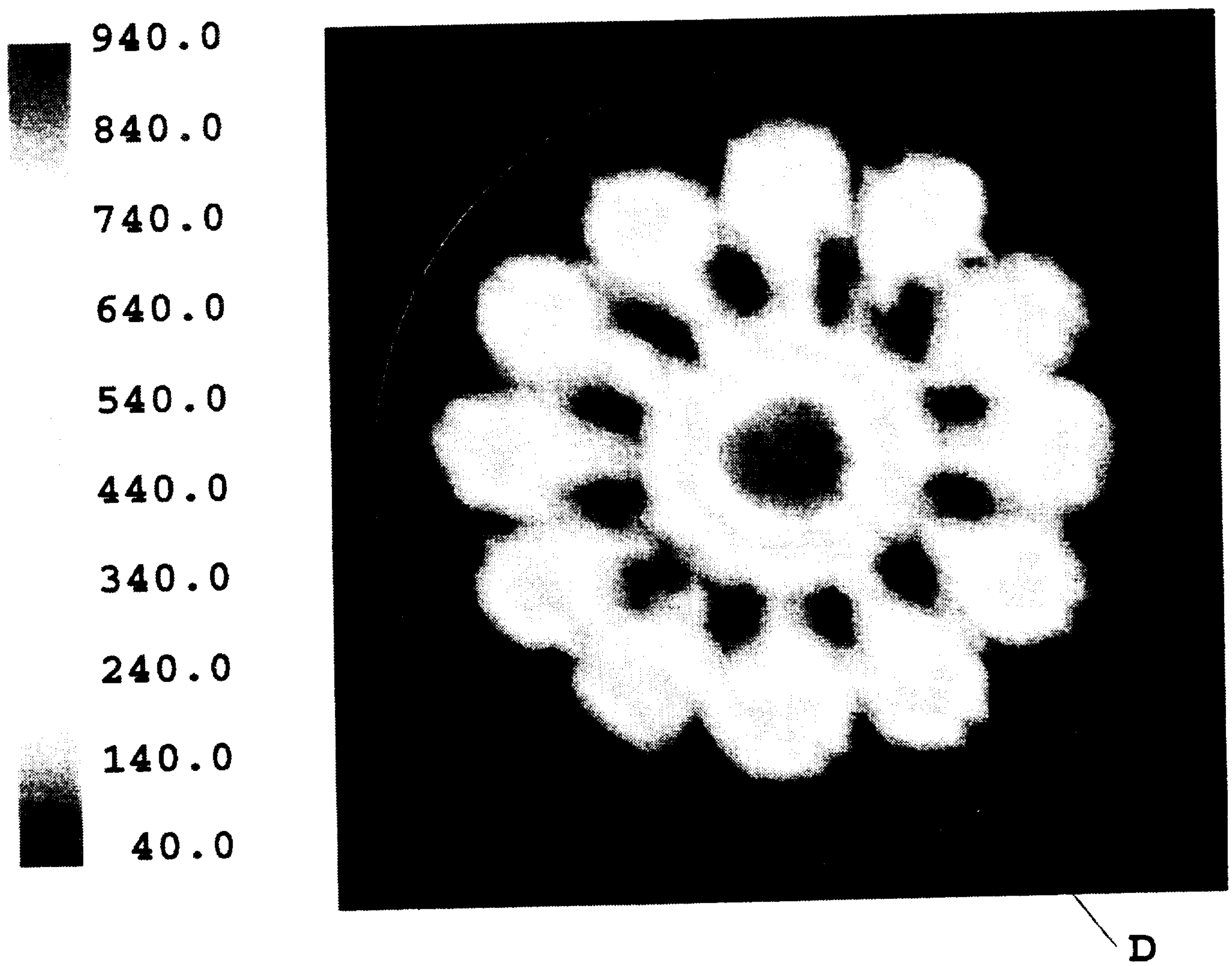
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T576

FIGURE 2

12 LOBE BASELINE MIXER-50% NOZZLE LENGTH

TOTAL TEMPERATURE - F AT X/D = 0.2



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

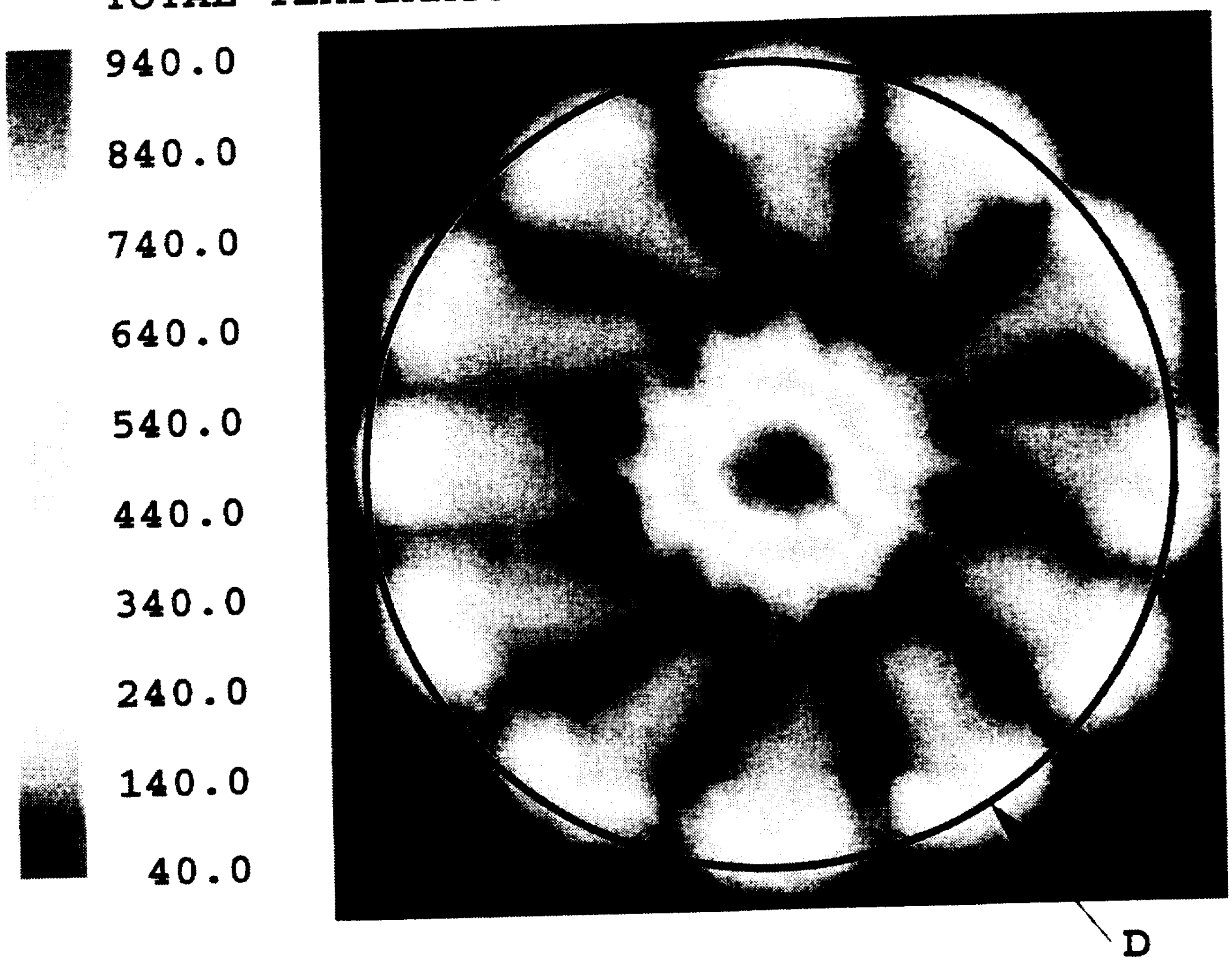
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T597

FIGURE 3

INTERNAL TONGUE MIXER

TOTAL TEMPERATURE - F AT X/D = 0.2



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

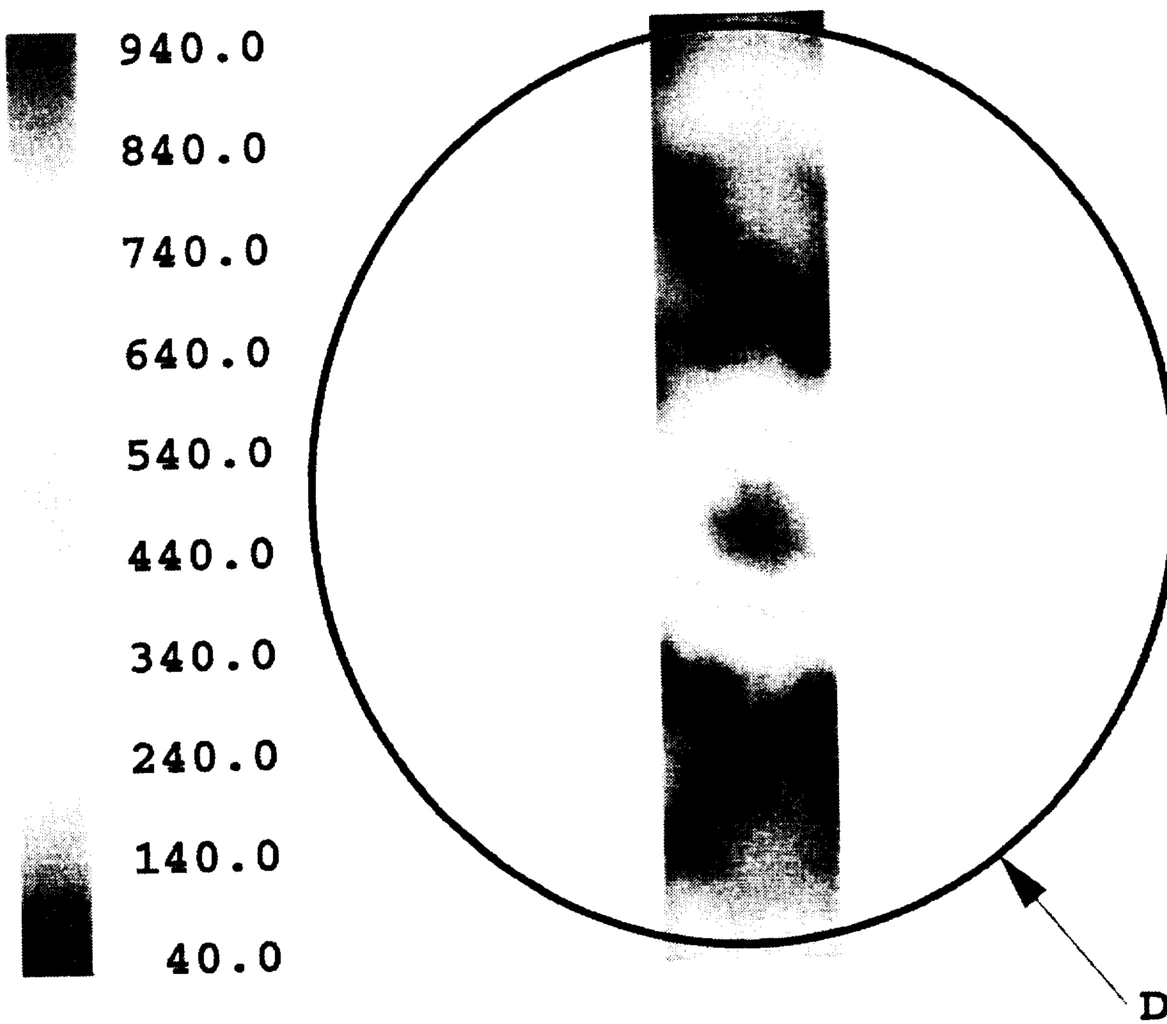
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T508

FIGURE 4

INTERNAL TONGUE MIXER

TOTAL TEMPERATURE - F AT X/D = 0.5



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

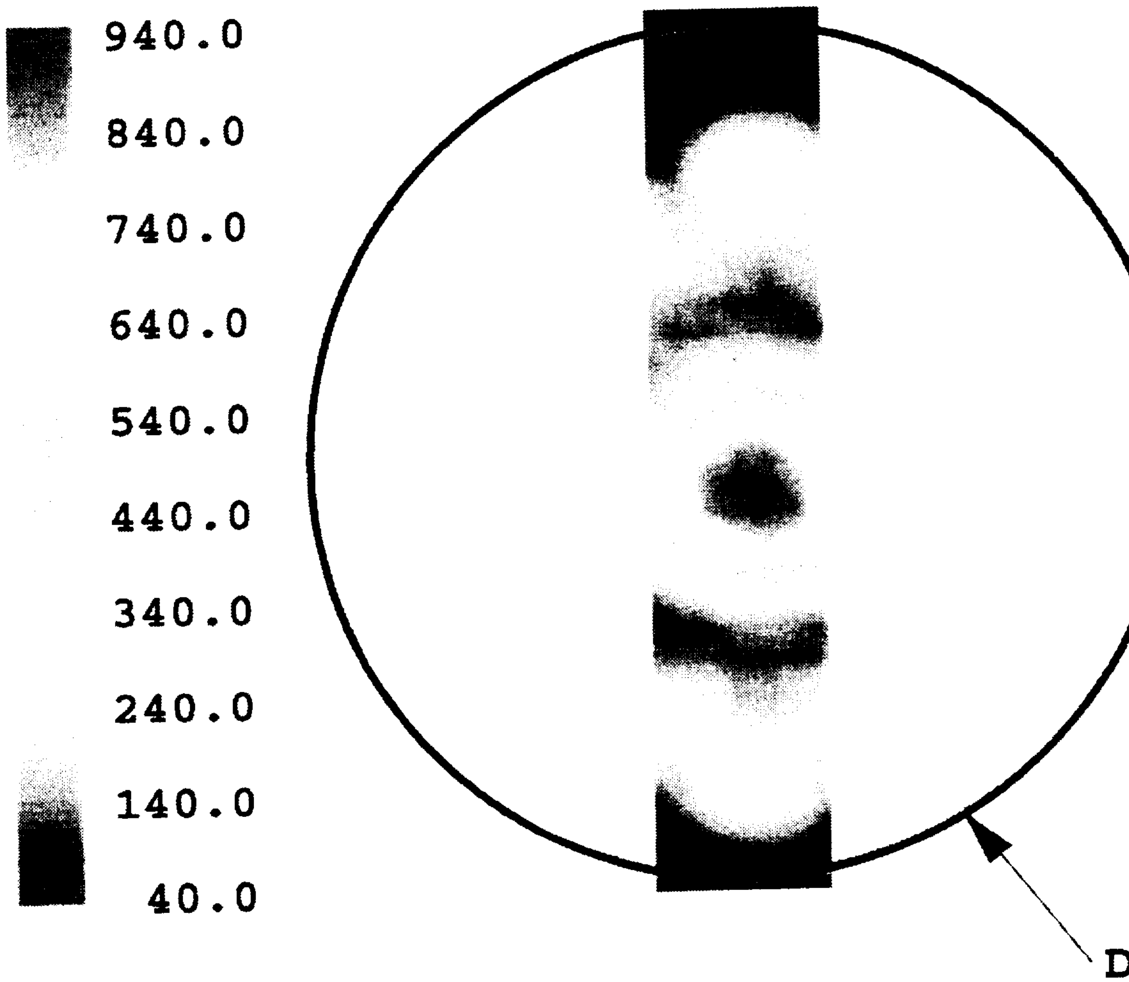
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T532

FIGURE 5

12 LOBE BASELINE MIXER-100% NOZZLE LENGTH

TOTAL TEMPERATURE - F AT X/D = 0.5



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

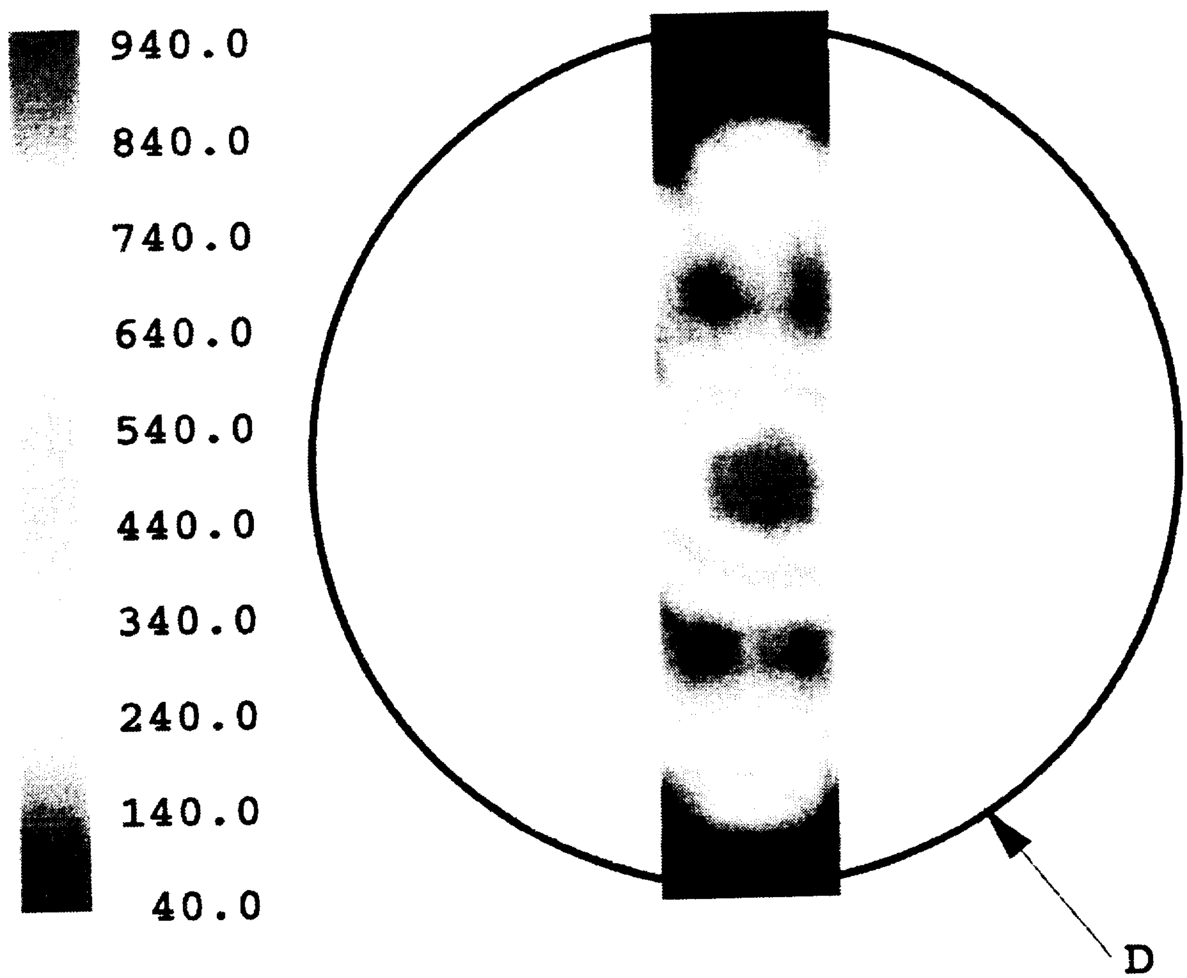
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T578

FIGURE 6

12 LOBE BASELINE MIXER-50% NOZZLE LENGTH

TOTAL TEMPERATURE - F AT X/D = 0.5



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

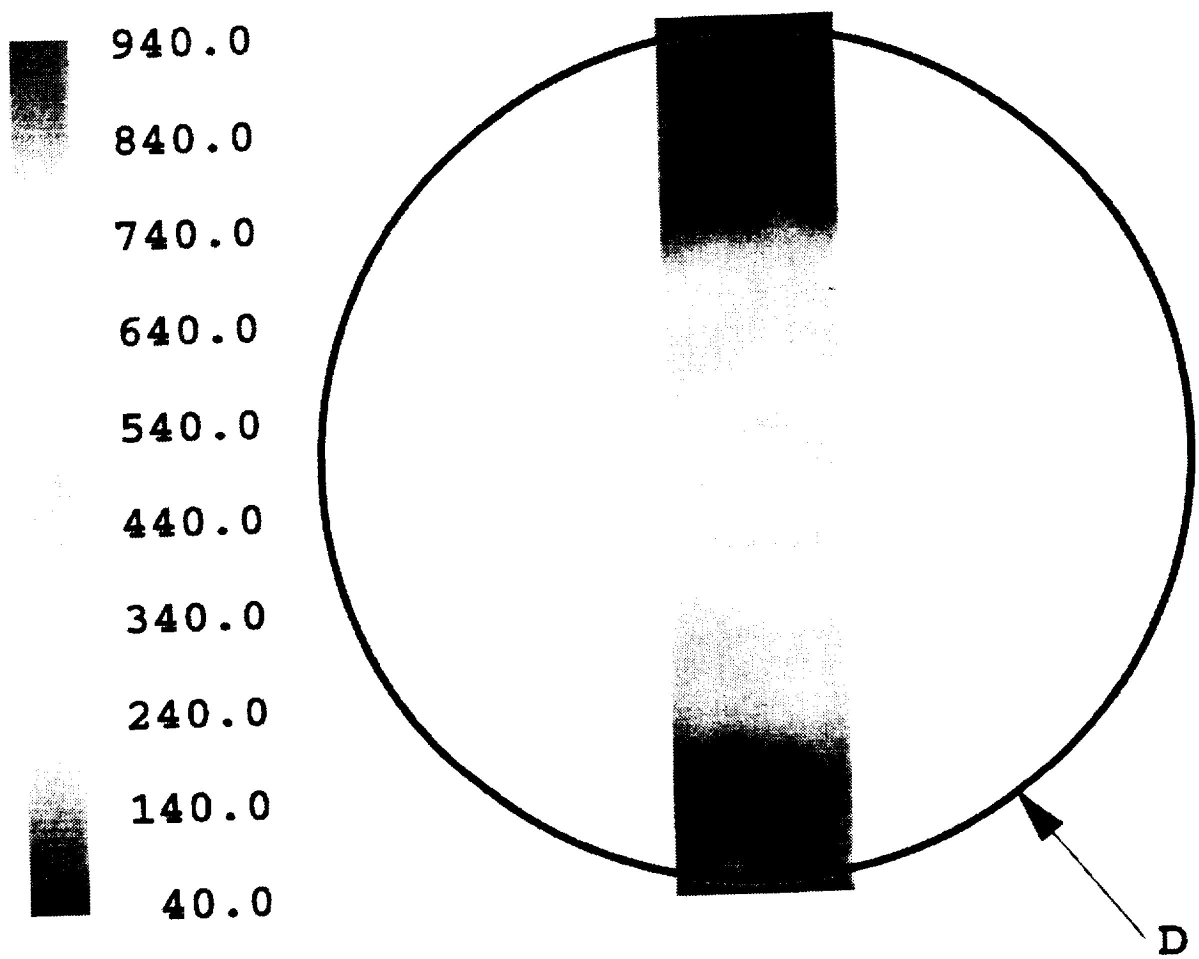
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T598

FIGURE 7

20 LOBE DEEP SCALLOP MIXER

TOTAL TEMPERATURE - F AT X/D = 0.5



D=7.25in.; NPRc=1.74; NPRf=1.82; TTc/TTf=2.79; M=0.2

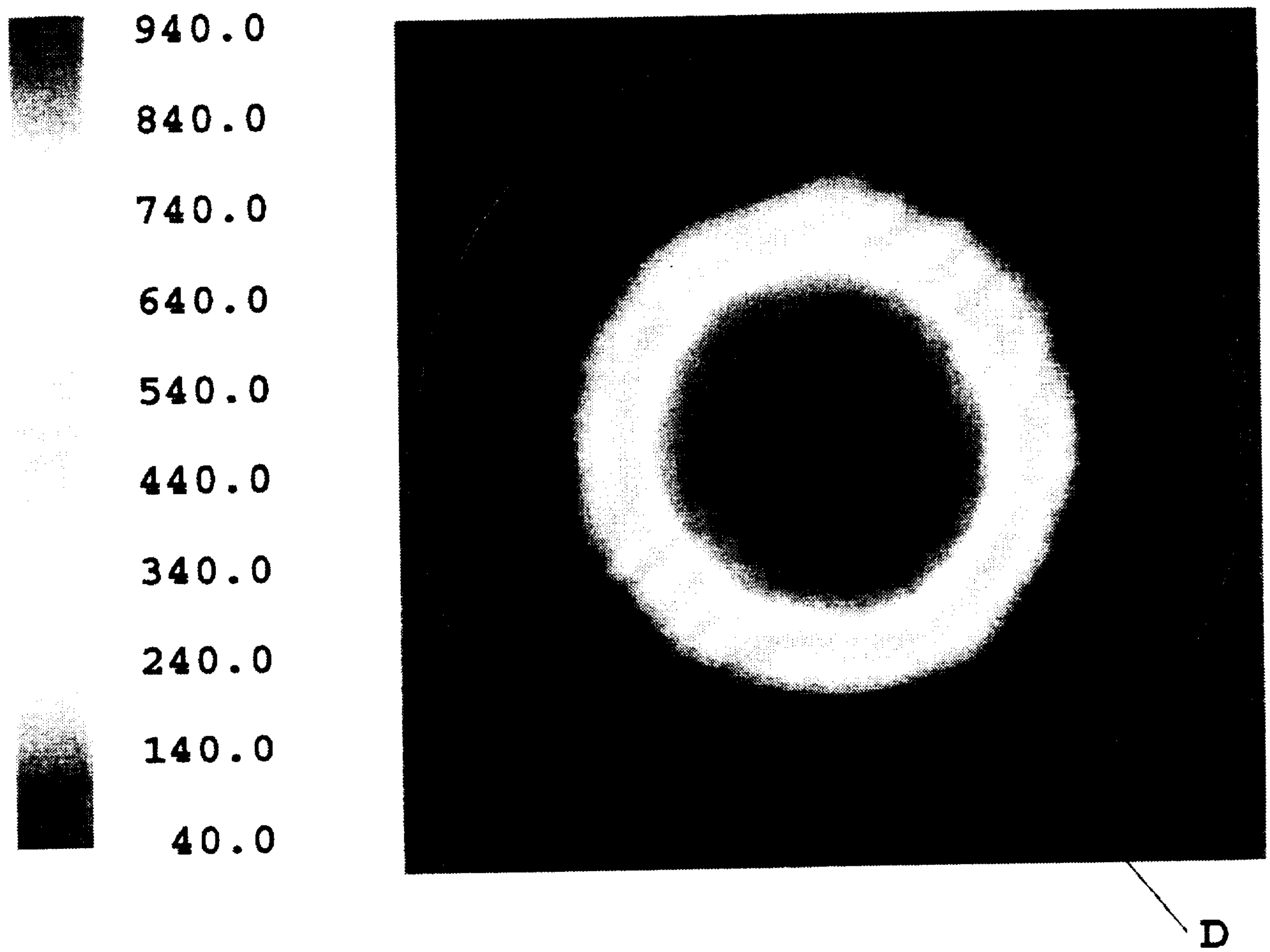
1996 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T542

FIGURE 8

CONFLUENT MIXER

TOTAL TEMPERATURE - F AT X/D = 0.1



D=7.25in.; NPRc=1.39; NPRf=1.44; TTc/TTf=2.34; M=0.1

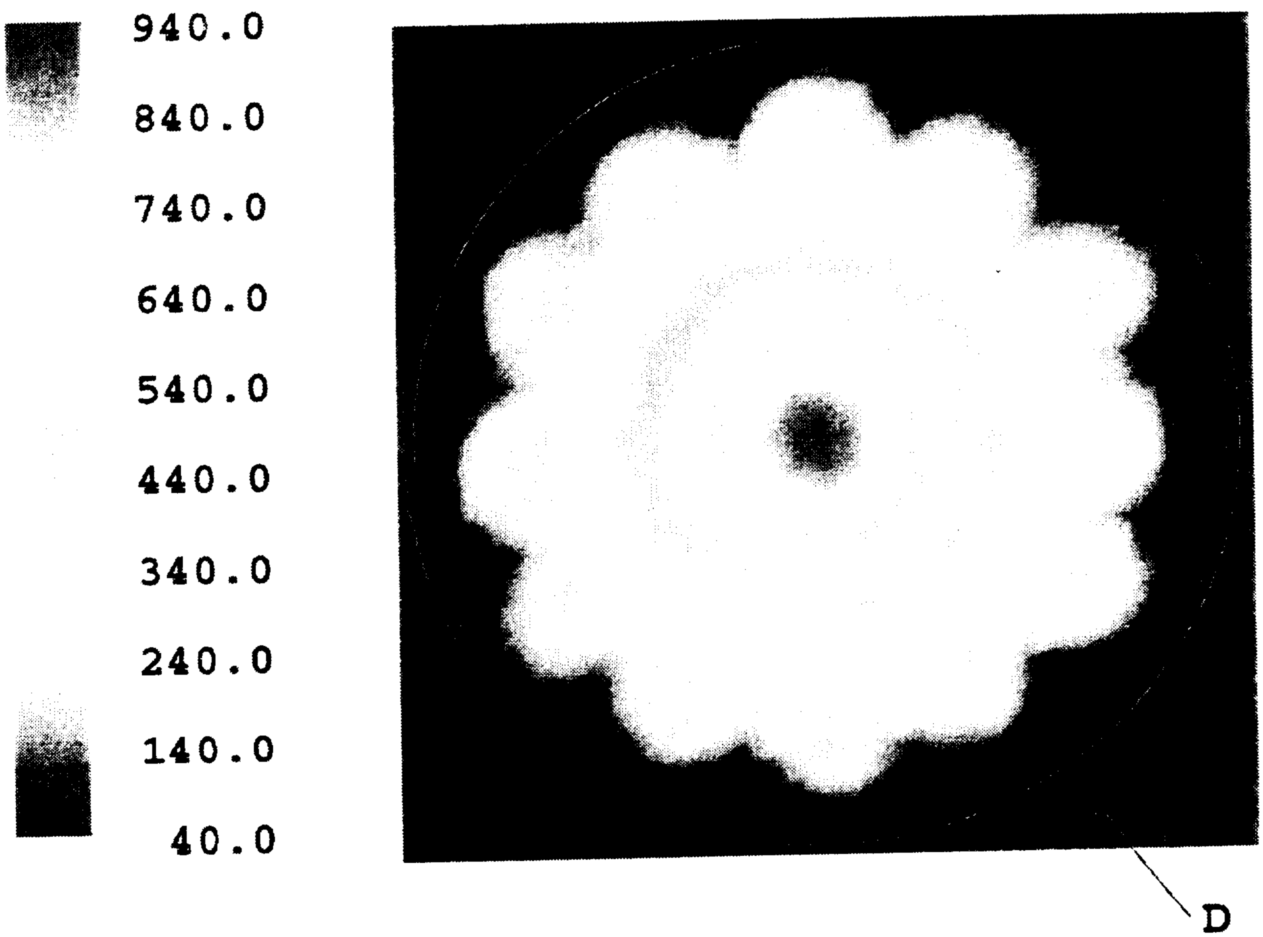
1995 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T324

FIGURE 9

12 LOBE CONVENTIONAL MIXER

TOTAL TEMPERATURE - F AT X/D = 0.1



D=7.25in.; NPRc=1.39; NPRf=1.44; TTc/TTf=2.34; M=0.1

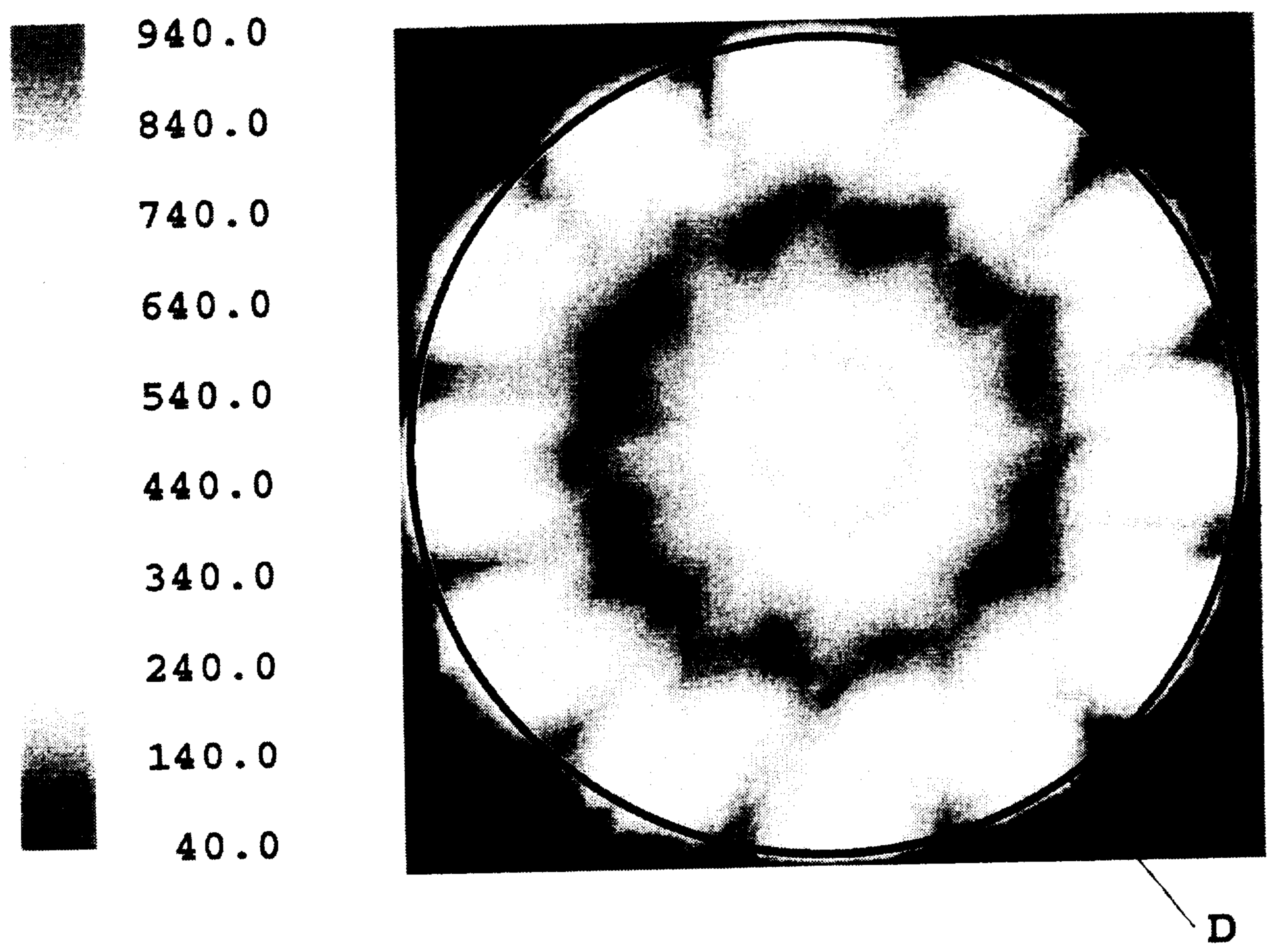
1995 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T355

FIGURE 10

12 LOBE ADVANCED MIXER

TOTAL TEMPERATURE - F AT X/D = 0.1



D=7.25in.; NPRc=1.39; NPRf=1.44; TTc/TTf=2.34; M=0.1

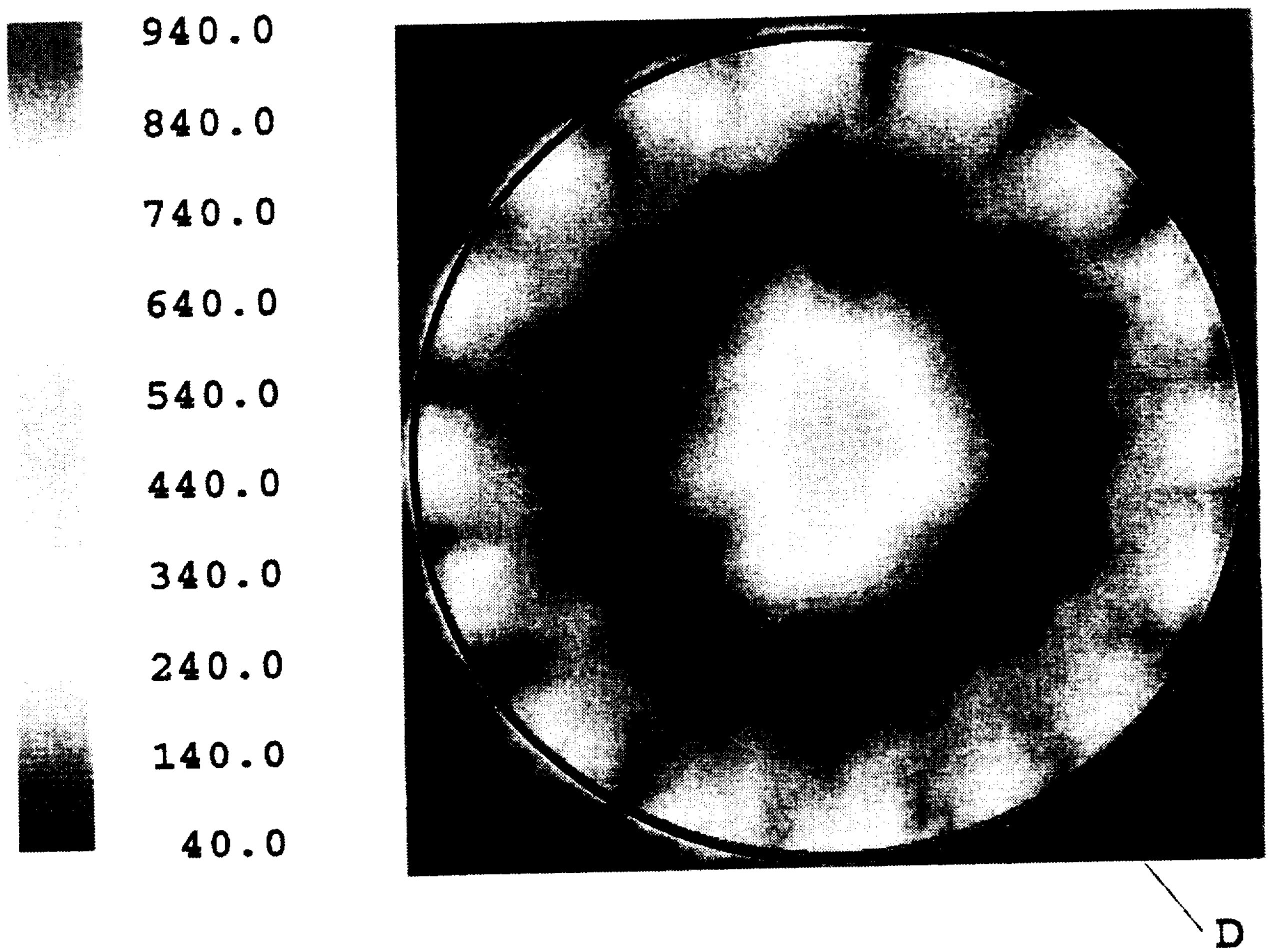
1995 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T409

FIGURE 11

16 LOBE ACOUSTIC MIXER

TOTAL TEMPERATURE - F AT X/D = 0.1



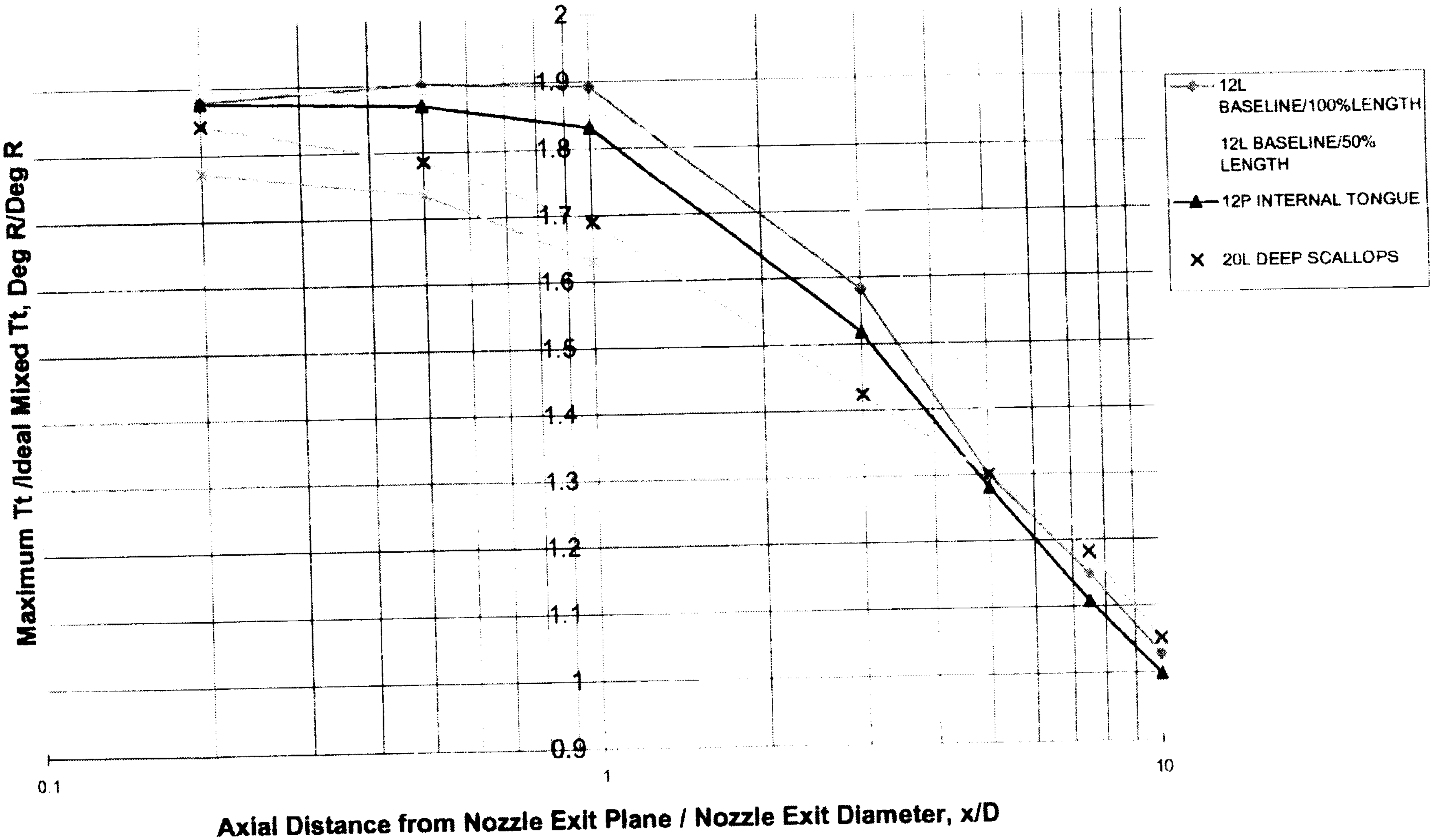
D=7.25in.; NPRc=1.39; NPRf=1.44; TTc/TTf=2.34; M=0.1

1995 NASA-LeRC ACOUSTIC MIXER/PLUME TESTS

READING NUMBER T378

FIGURE 12

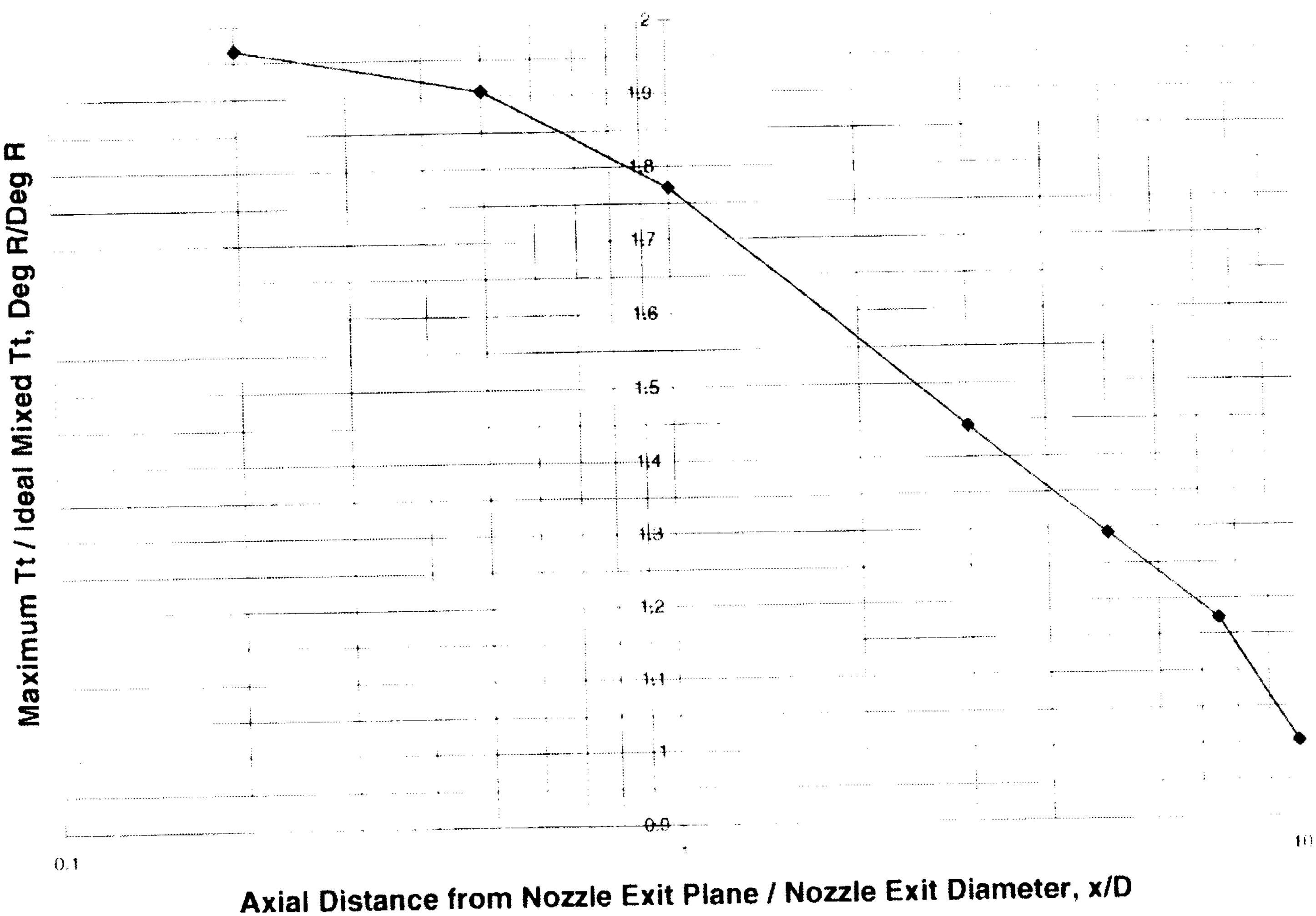
Figure 12. Ratio of Maximum "Centerline" Total Temperature to Ideal Mixed Total Temperature vs. x/D for 12L Baseline, Internal Tongue, & 20L Mixers; NPR)core=1.39, NPR)fan=1.44, Tt)core/Tt)fan=2.34, Mn)FS=0.2; 1996 NASA-LeRC Acoustic Mixer / Plume Tests



D. Baker, 8/20/97, FILE: TTCLTTID.xls

FIGURE 13

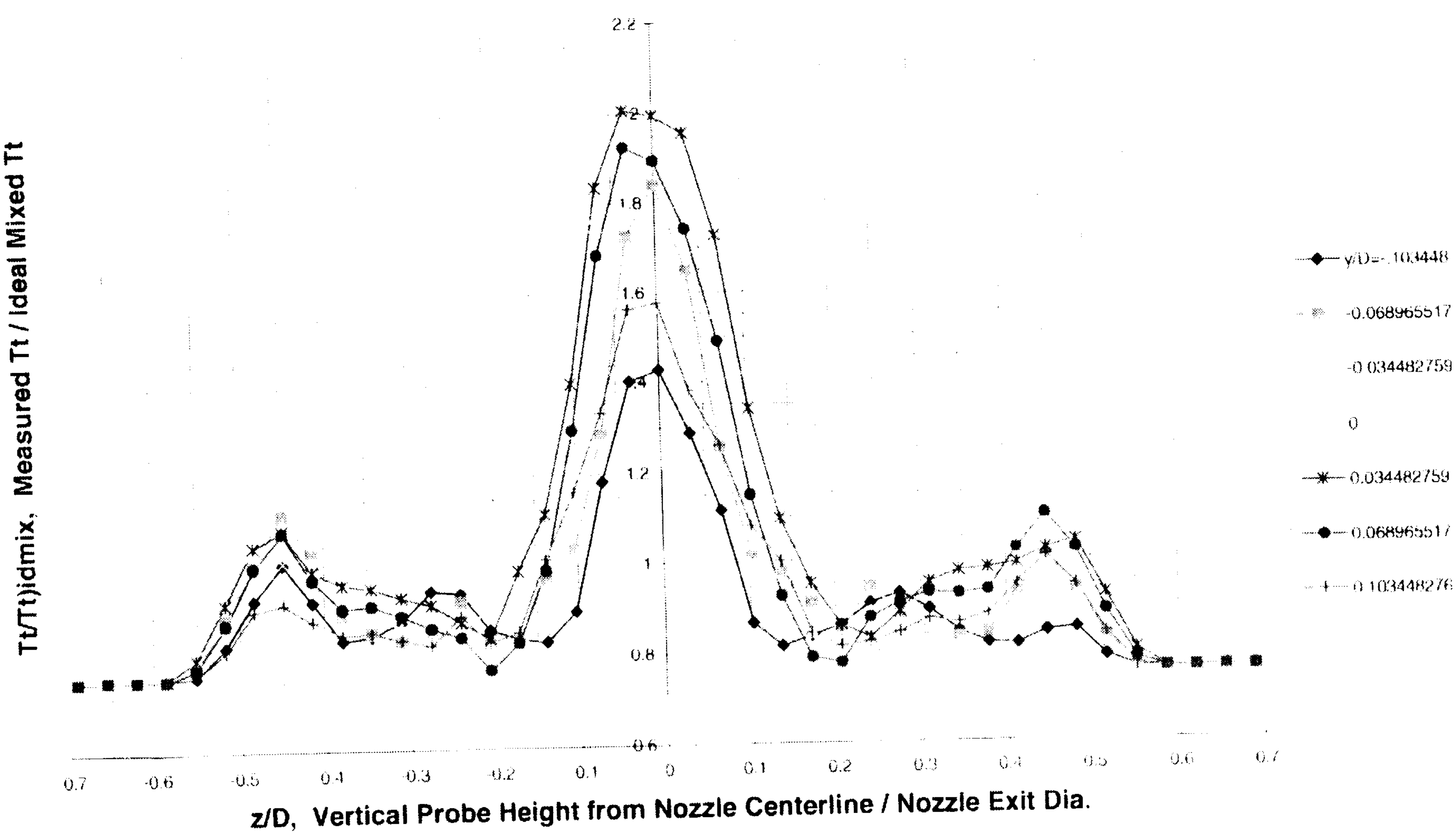
Ratio of Maximum "Centerline" Total Temperature to Ideal Mixed Total Temperature vs. x/D for 20L Deep Mixer, 100% Nozzle Length; 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer / Plume Tests



D. Baker 8/21/97: FILE: ttclttid.xls

FIGURE 14

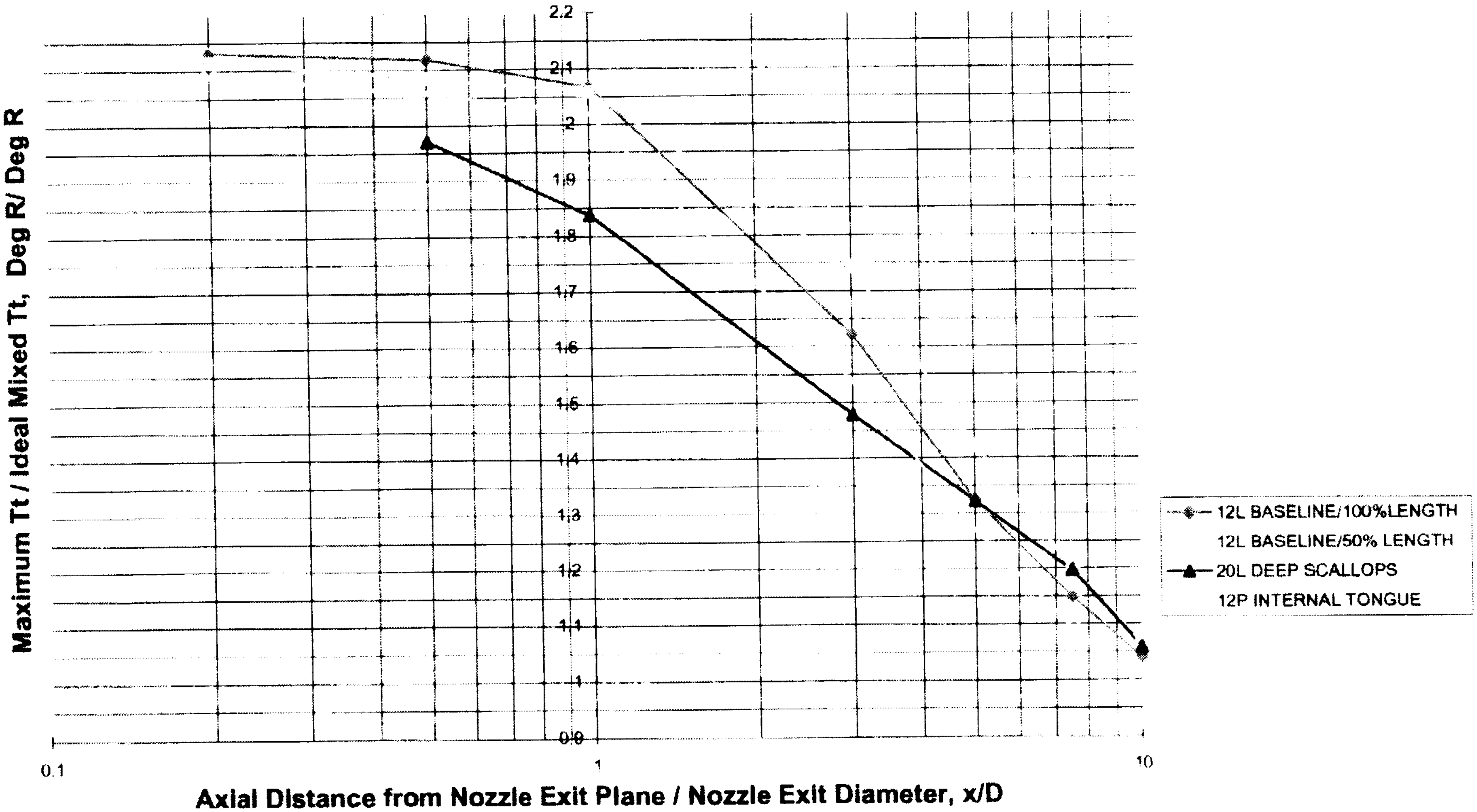
Internal Tongue Mixer - Nondimensional Tt Sweep at x/D=0.2, NPR)core=1.54, NPR)fan=1.61, NPR)mavg=1.597, Mn)FS=0.2, Tt)idmix=649.7R, 1996 NASA-LeRC Mixer Plume Tests, Rdg# TT510



D. Baker 3/26/97 File:XXTT510.xls

FIGURE 15

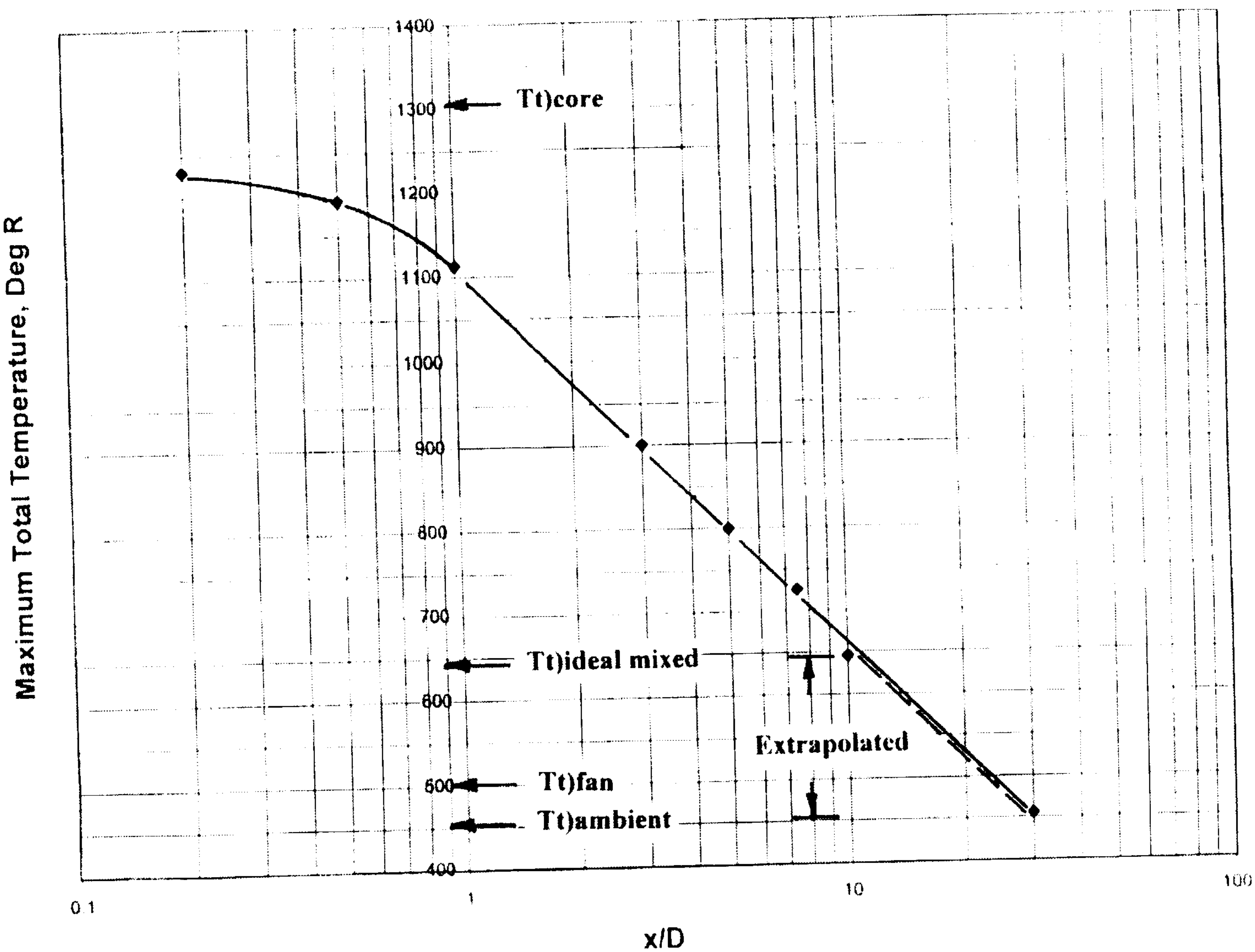
Ratio of Maximum "Centerline" Total Temperature to Ideal Mixed Total Temperature vs. x/D for 12L Baseline, 20L Deep & Internal Tongue Mixers; NPR)core=1.74, NPR)fan=1.82, Tt)core/Tt)fan=2.79, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer / Plume Tests



D. Baker, 8/21/97, FILE: ttclttid.xls

FIGURE 16

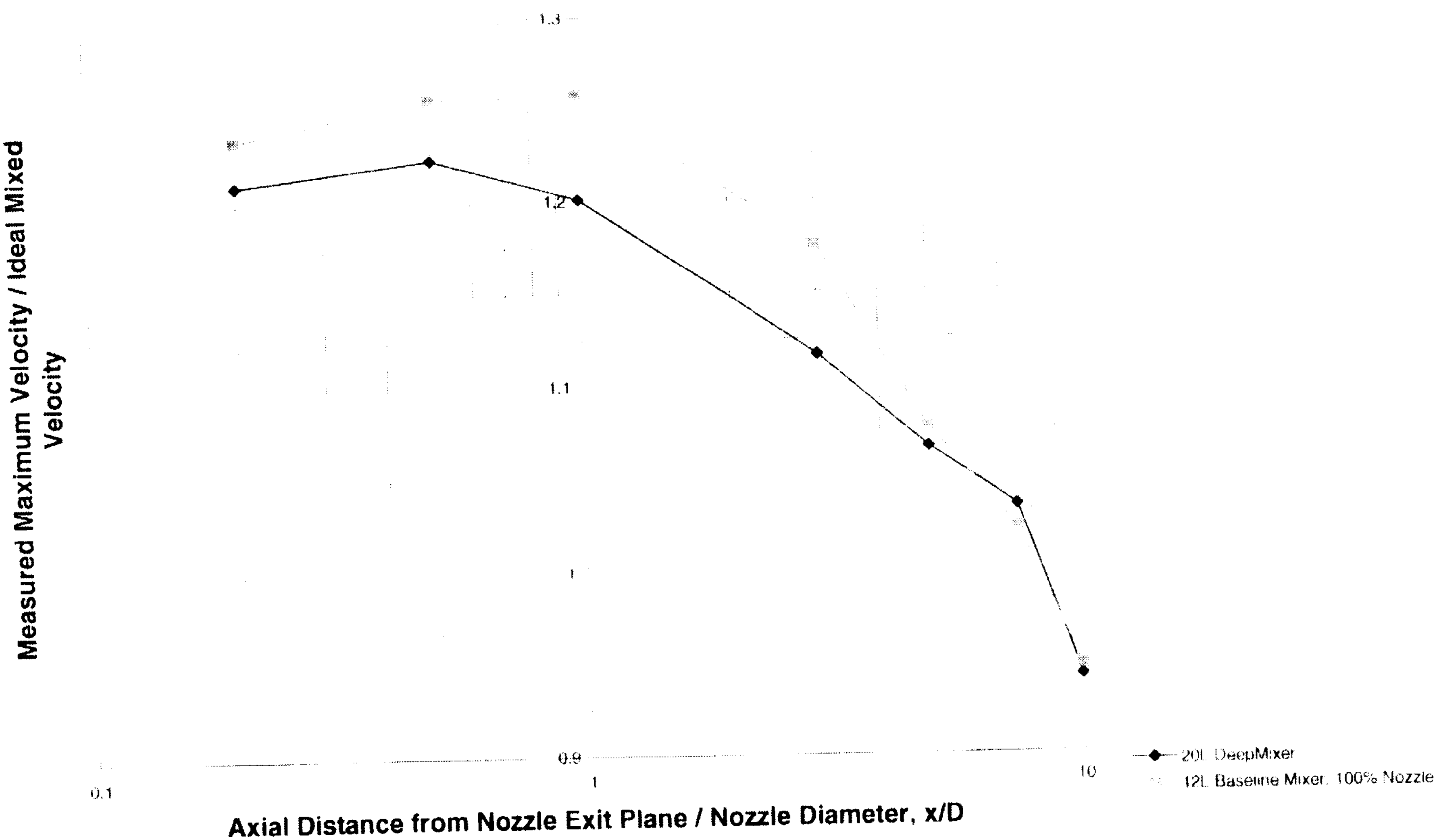
Example of Extrapolation of Maximum Total Temperature Decay to Ambient Sink Temperature



D Baker 9/9/97

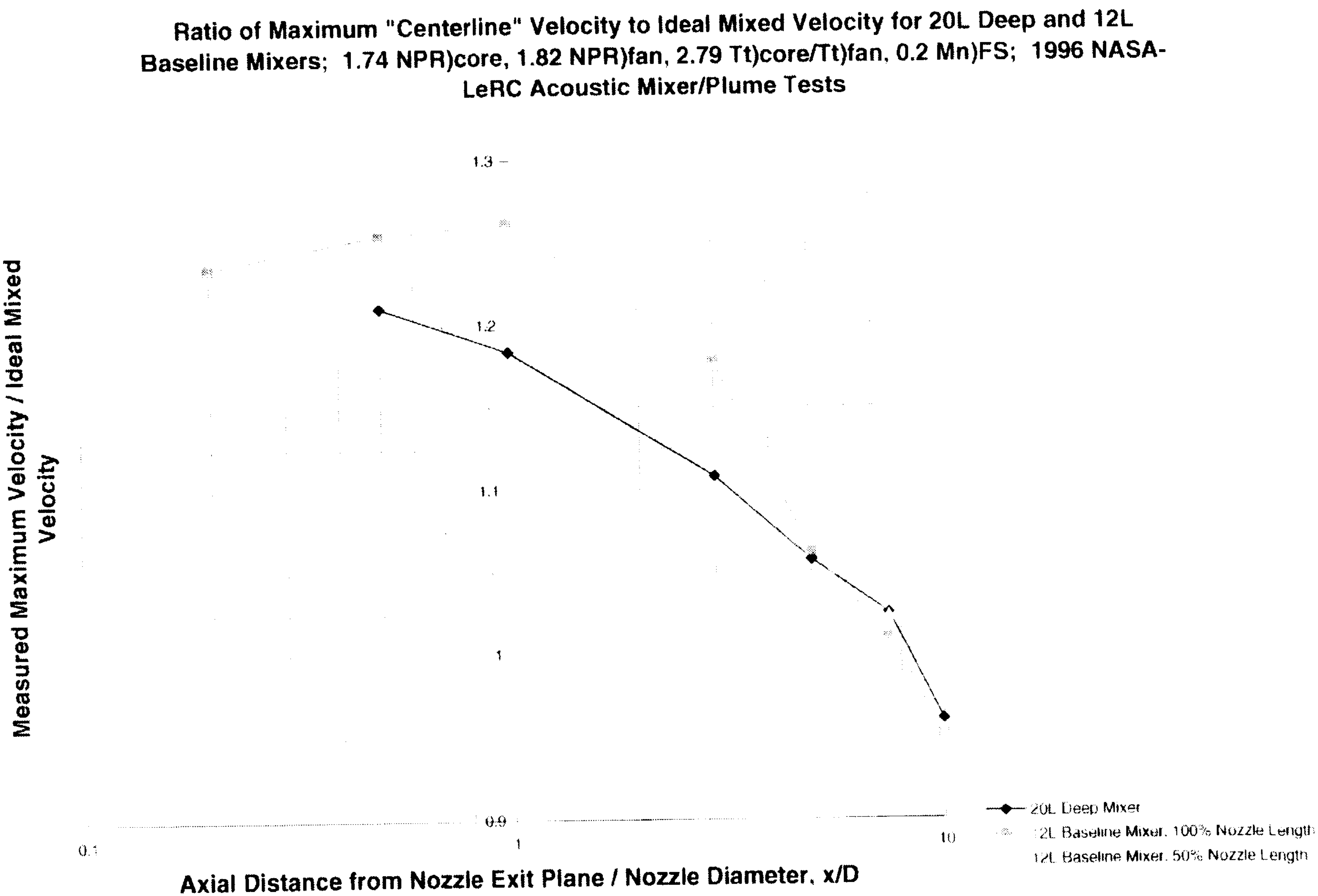
FIGURE 17

Ratio of Maximum "Centerline" Velocity to Ideal Mixed Velocity for 20L Deep and 12L Baseline Mixers; 1.54 NPR)core, 1.61 NPR)fan, 2.62 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer / Plume Tests



D. Baker, 8/25/97; FILE: VCLVID1.xls

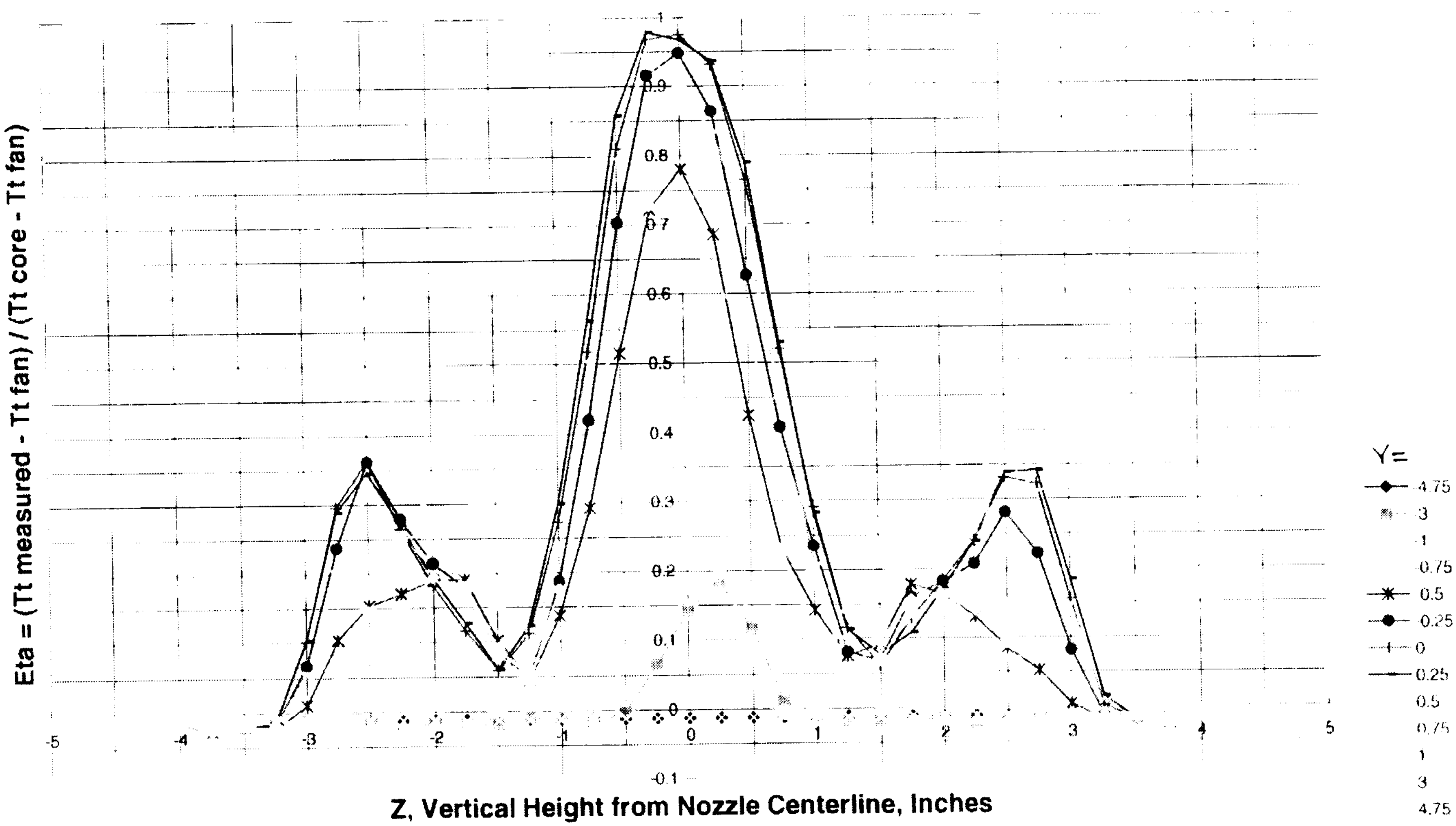
FIGURE 18



D. Baker, 8/25/97; FILE: VCLVID1.xls

FIGURE 19

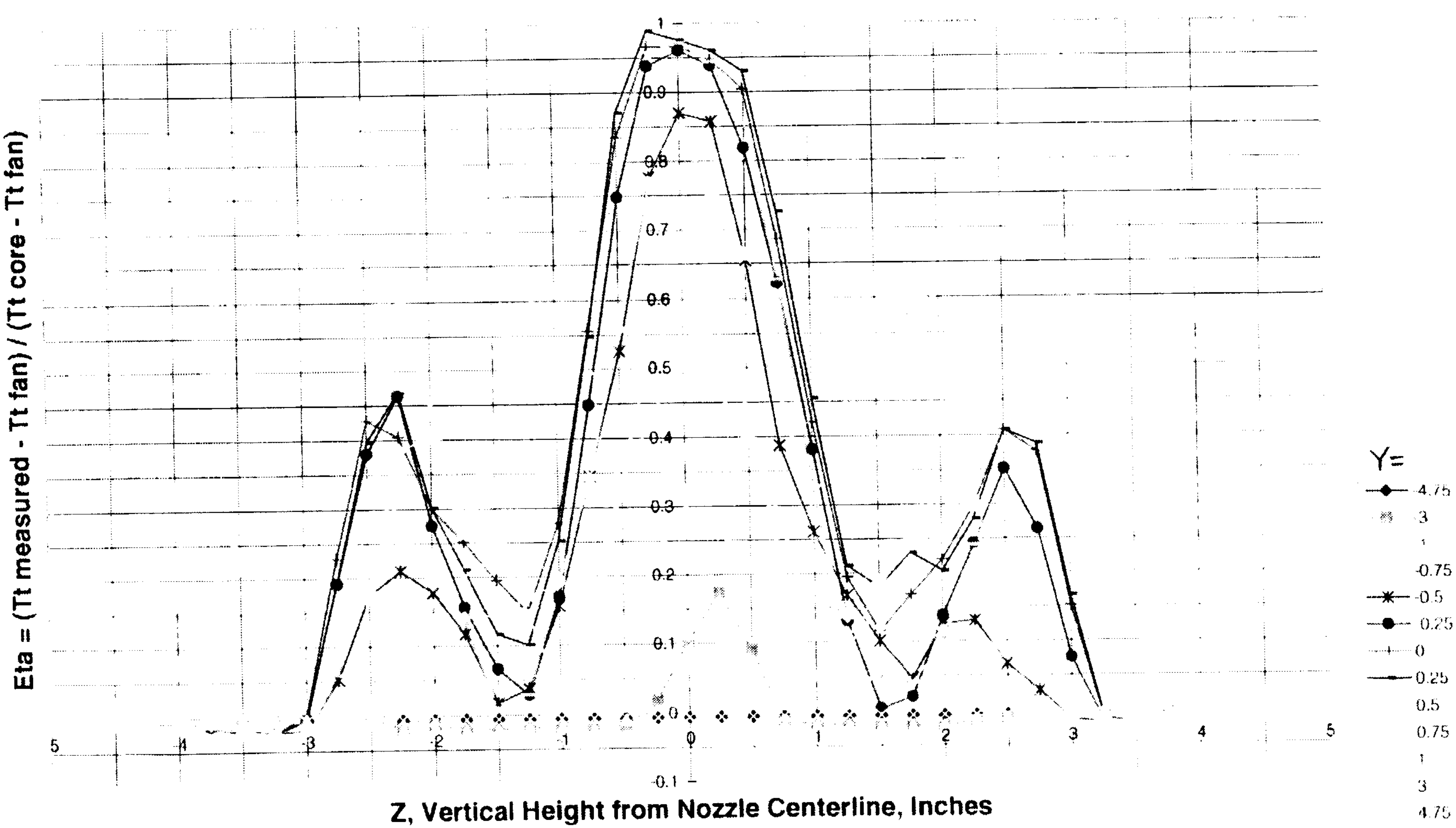
Eta Distribution for 12L Baseline Mixer at x/D=0.2, 100% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # TT576



D. Baker, 8/18/97; FILE: TT576eta.xls

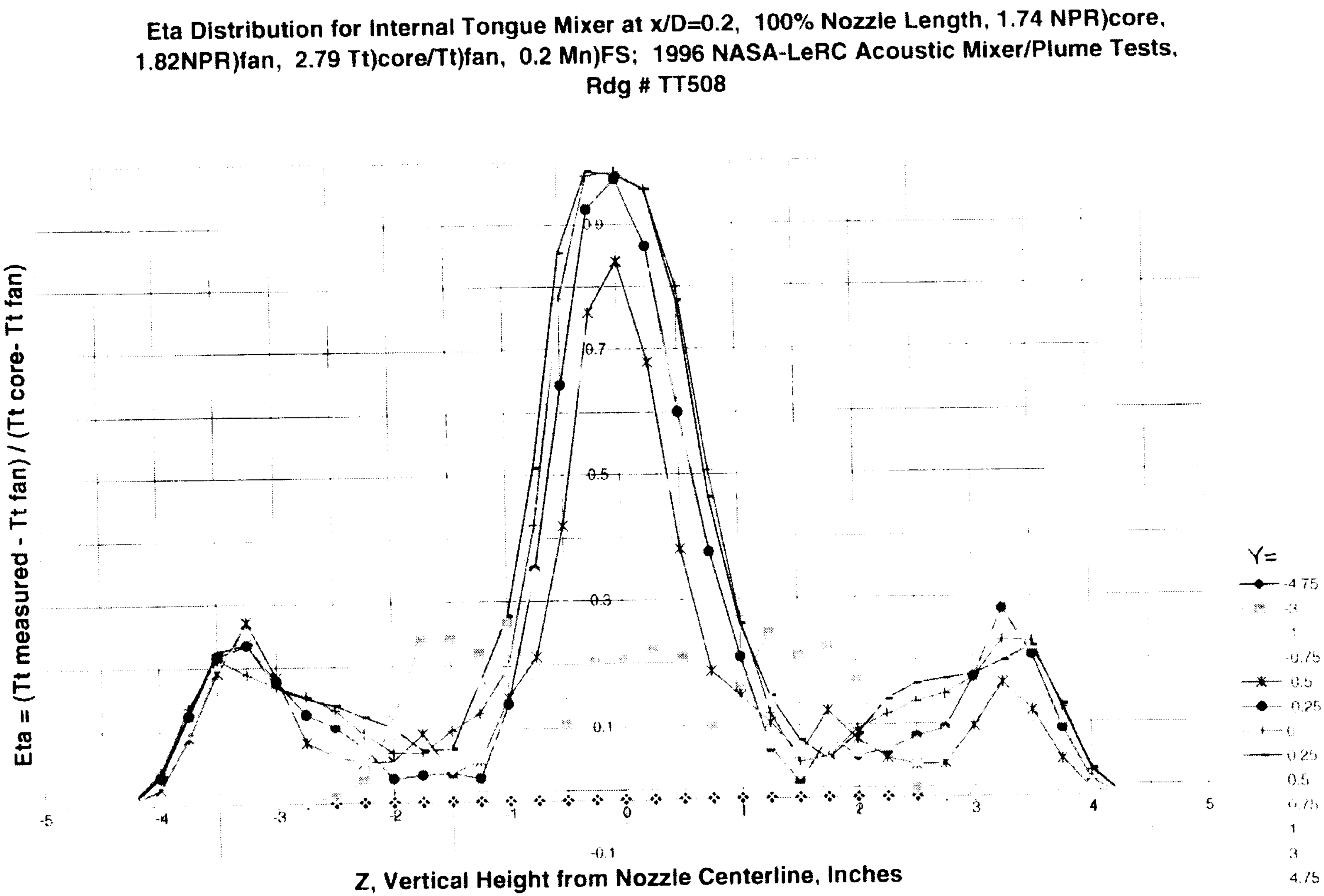
FIGURE 20

Eta Distribution for 12L Baseline Mixer at x/D=0.2, 50% Nozzle Length, 1.74 NPR)core, 1.82 NPR)fan, 2.79 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # TT597



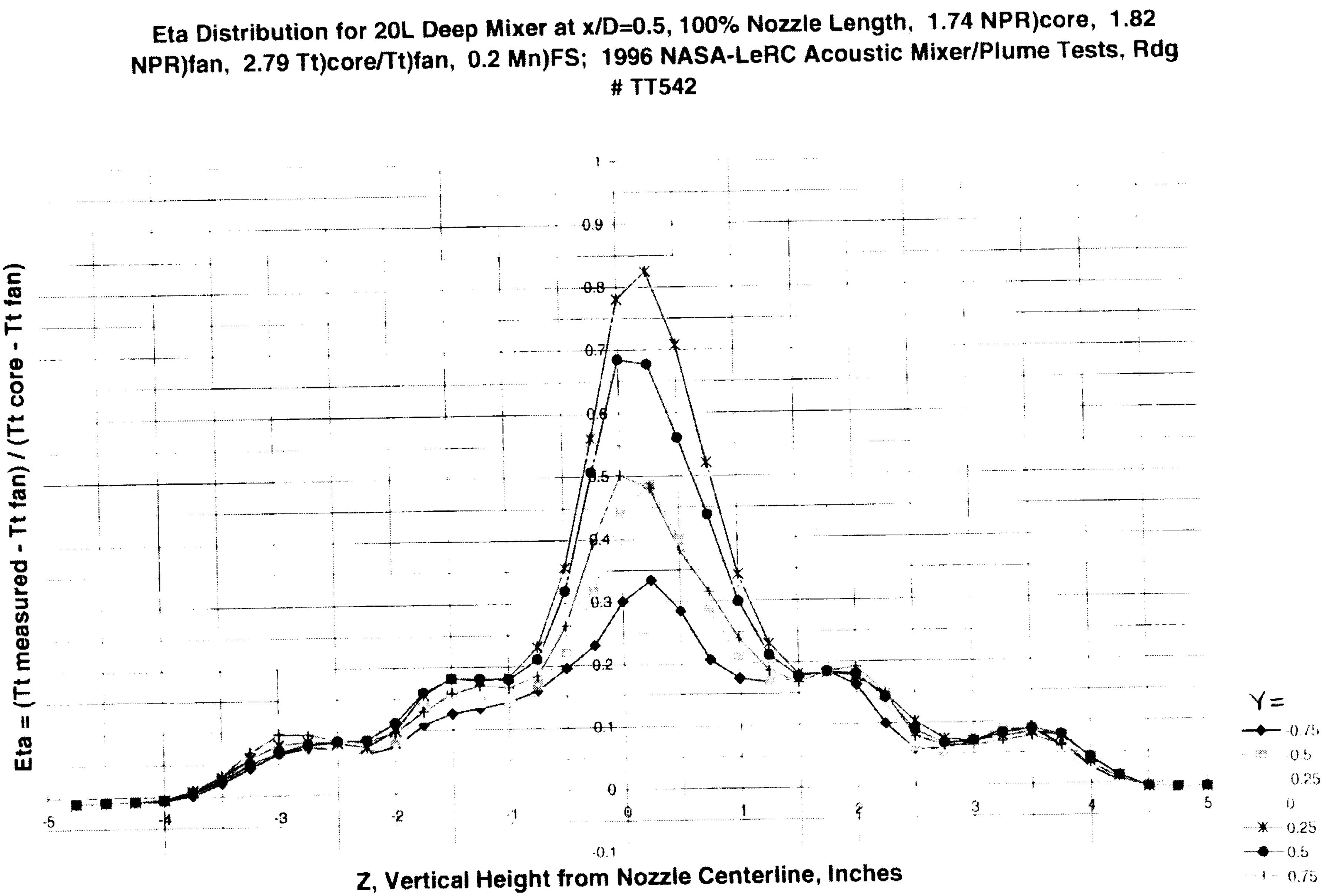
D. Baker, 8/18/97. FILE: TT597eta.xls

FIGURE 21



D. Baker, 8/15/97; File TT508eta.xls

FIGURE 22

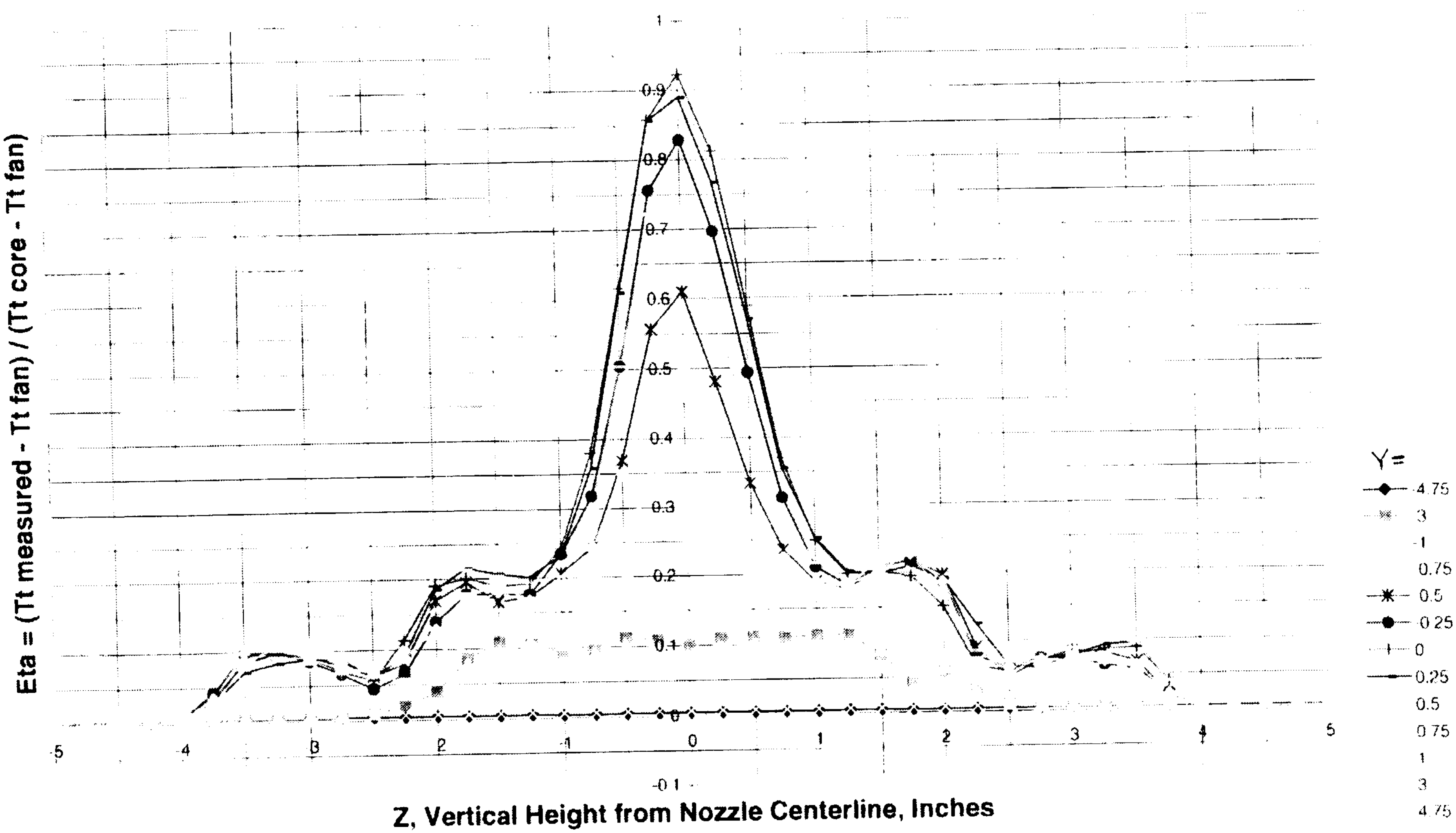


D. Baker, 8/18/97; FILE: TT542eta.xls

Figure 23 not available at time of printing.

FIGURE 24

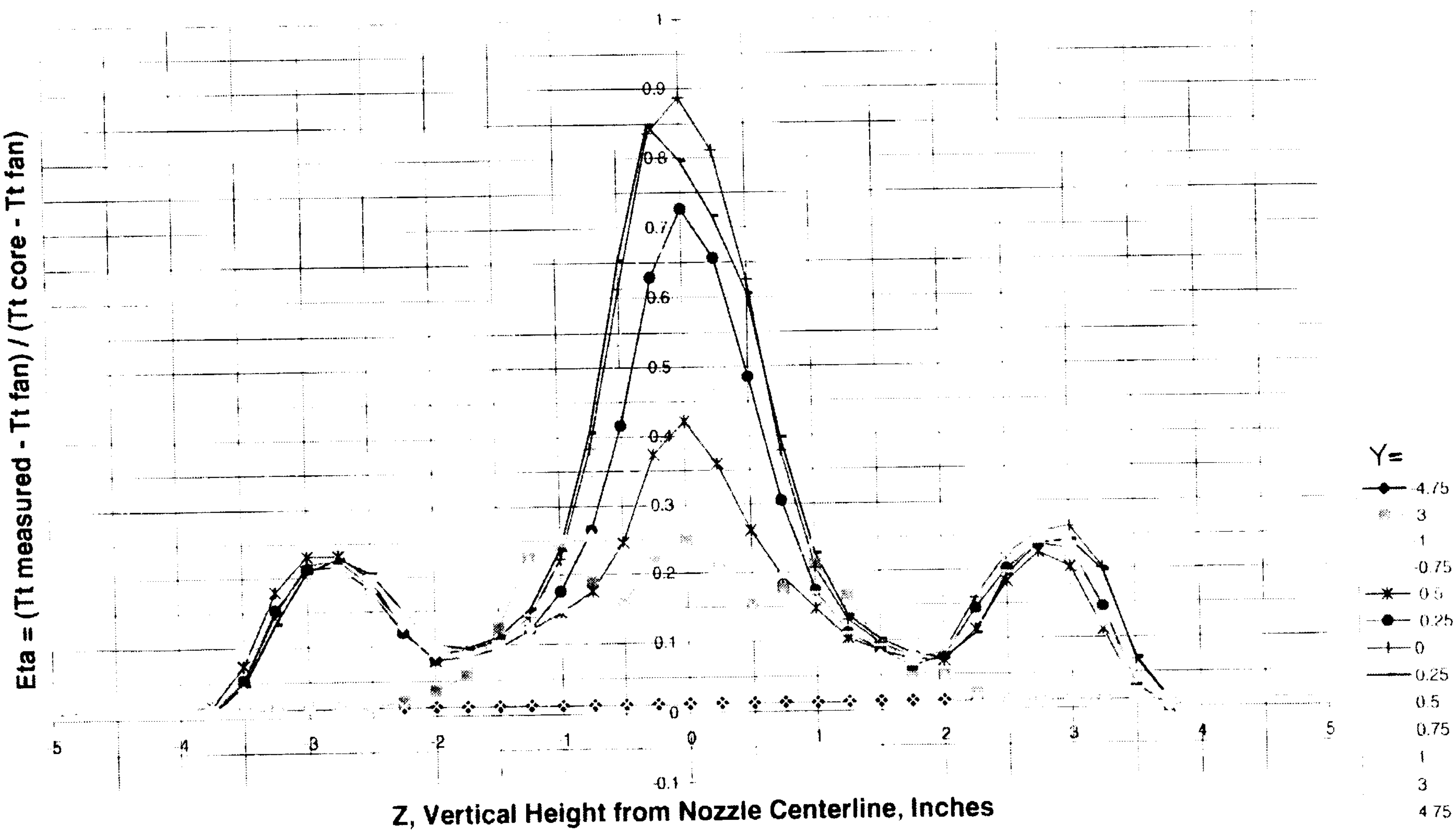
Eta Distribution for 20L Deep Mixer at x/D=0.2, 100% Nozzle Length, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # TT550



D. Baker, 8/19/97: FILE: TT550eta.xls

FIGURE 25

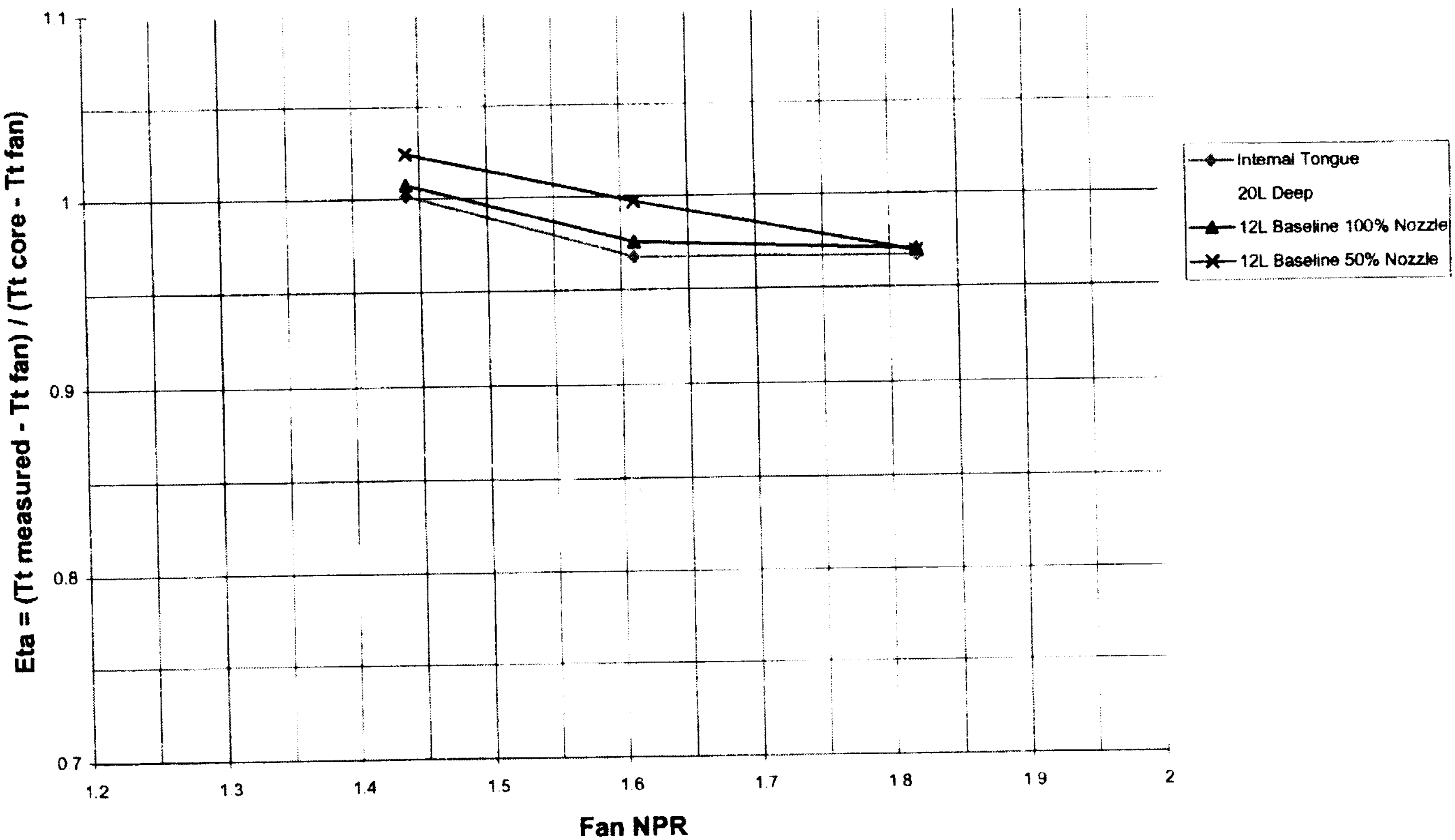
Eta Distribution for 20L Unscalloped Mixer at x/D=0.2, 100% Nozzle length, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan. 0.2 Mn)FS; 1996 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # TT609



D. Baker, 8/18/97; FILE: TT609eta.xls

FIGURE 26

Max Centerline Eta at x/D=0.5 vs. Fan NPR for 20L Deep, Internal Tongue, and 12L Baseline Mixers; 1996 NASA-LeRC Acoustic Mixer / Plume Tests



D. Baker, 8/22/97, FILE: ETAvFNPR

Figure 27(a). Confluent mixer Tt survey at x/D=0.1 at TO #1, M(fj) = 0.1. 1995 NASA-LeRc Test #T324

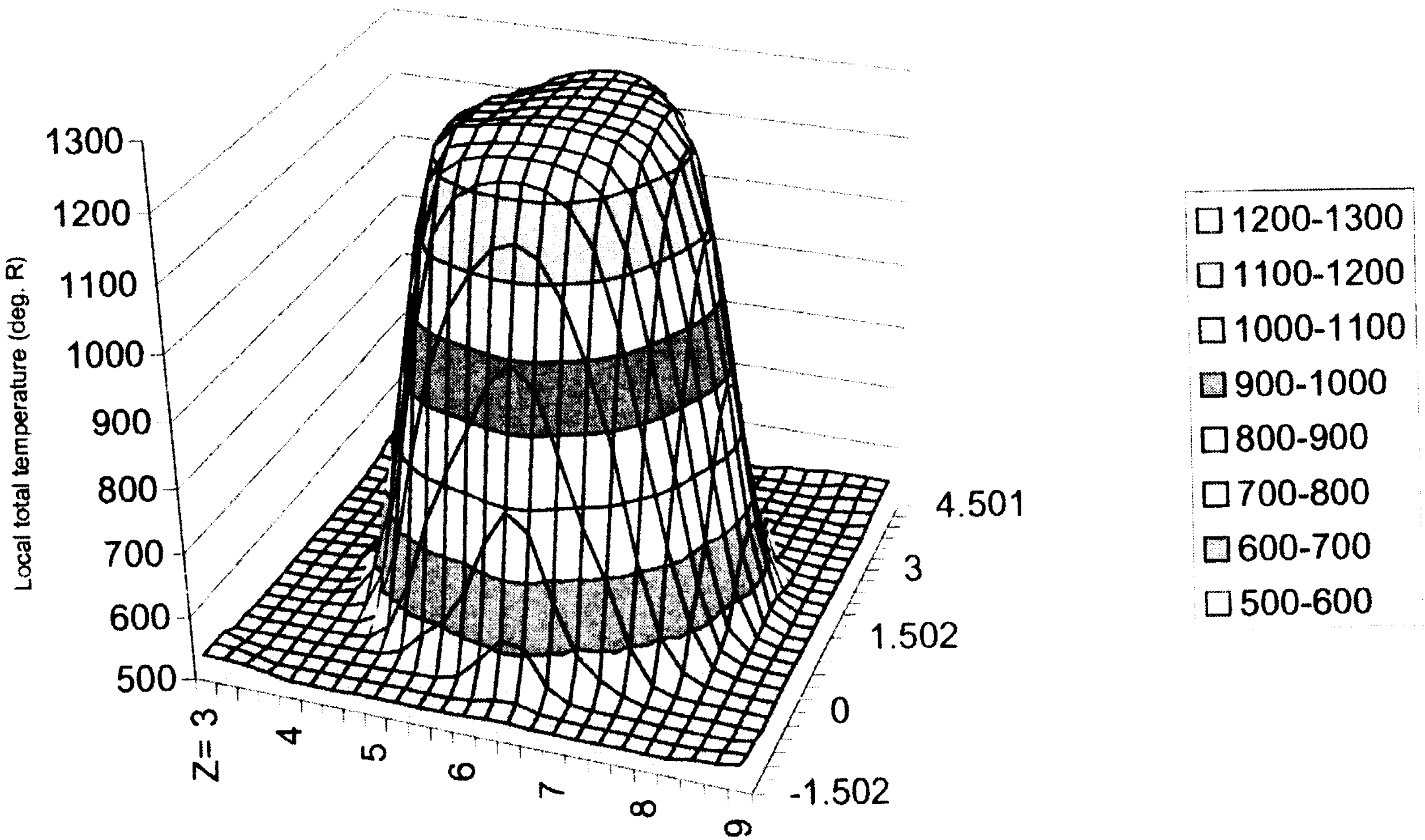
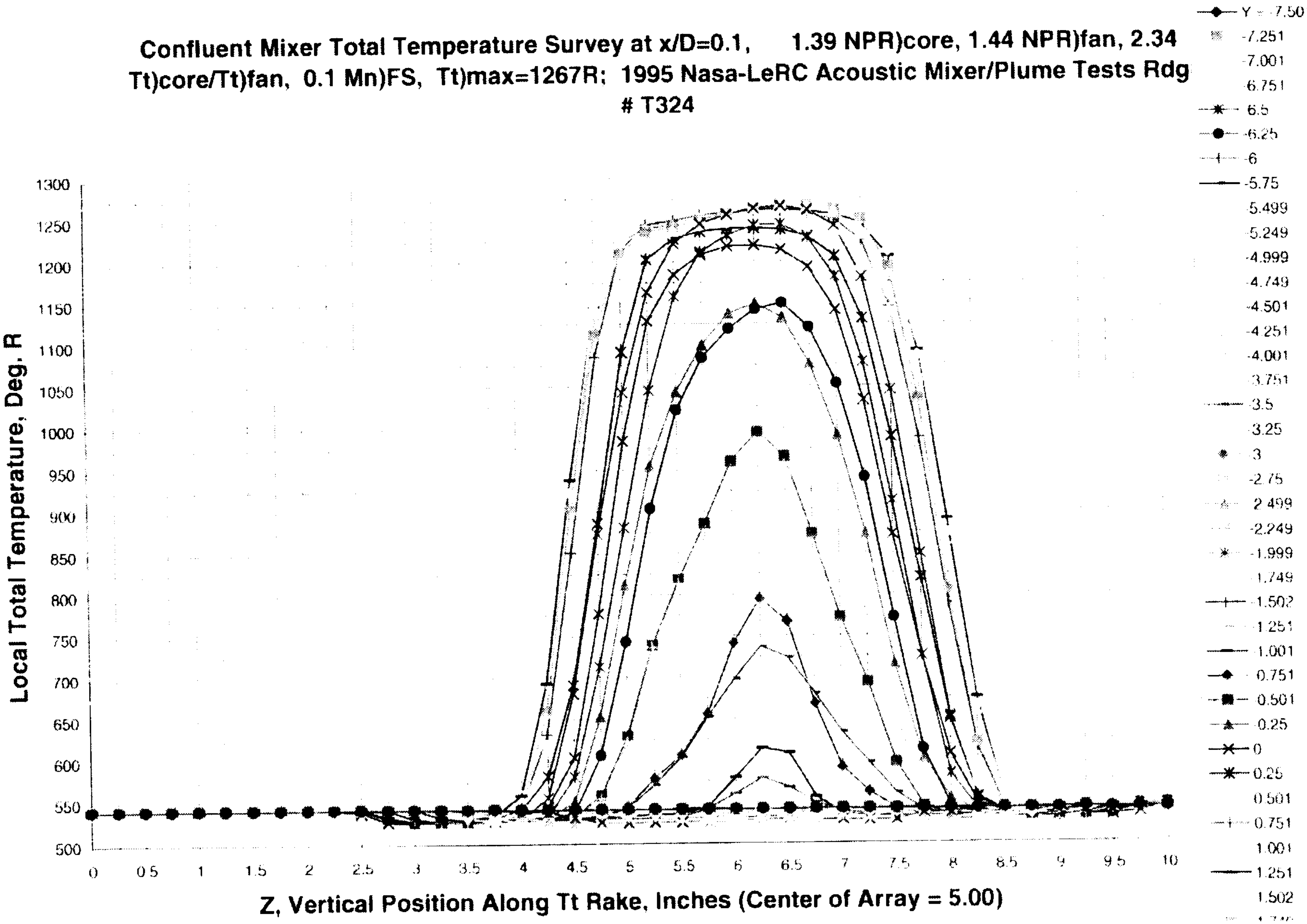
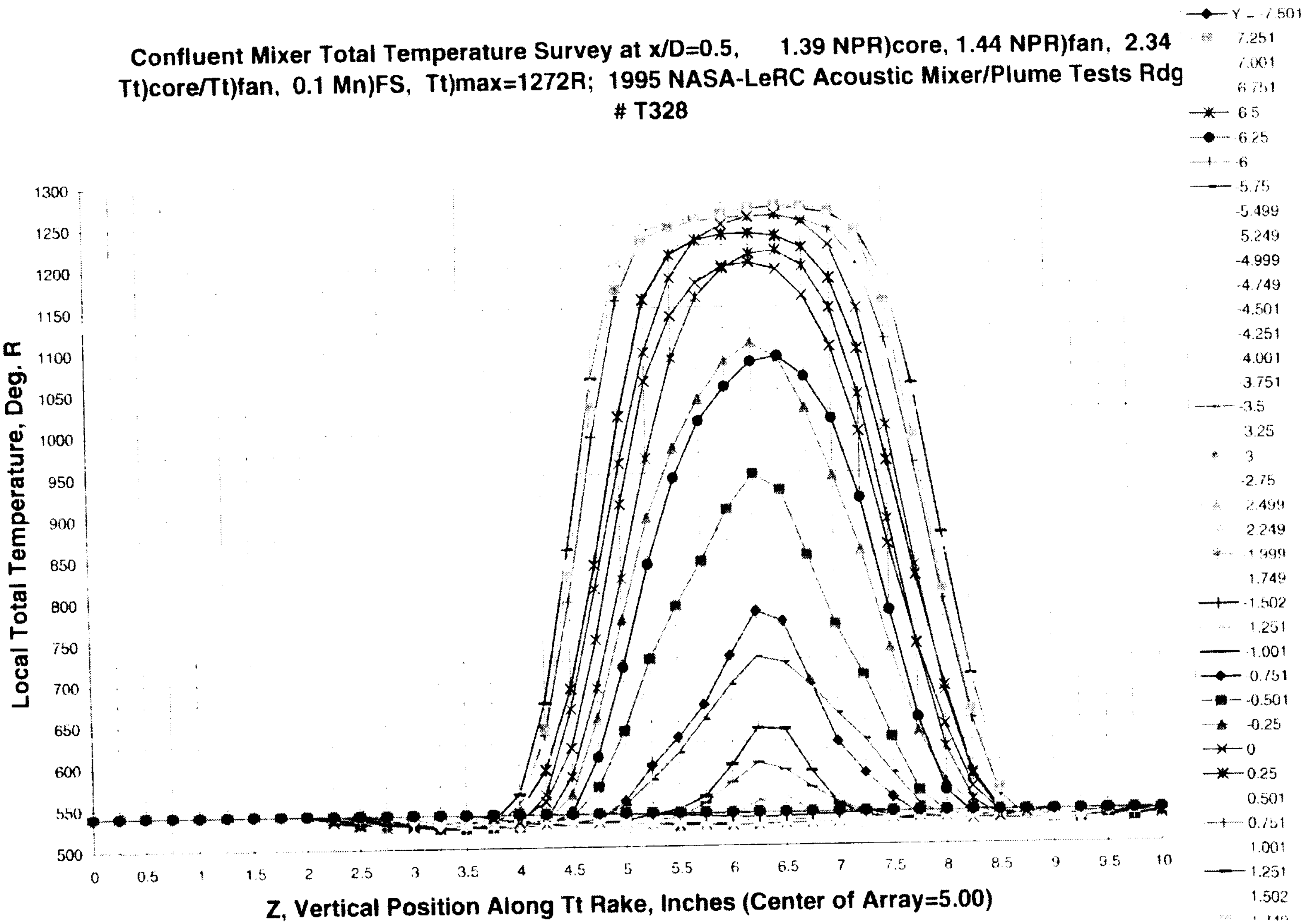


FIGURE 27 (b)



D. Baker, 9/3/97; FILE: ZT324.xls

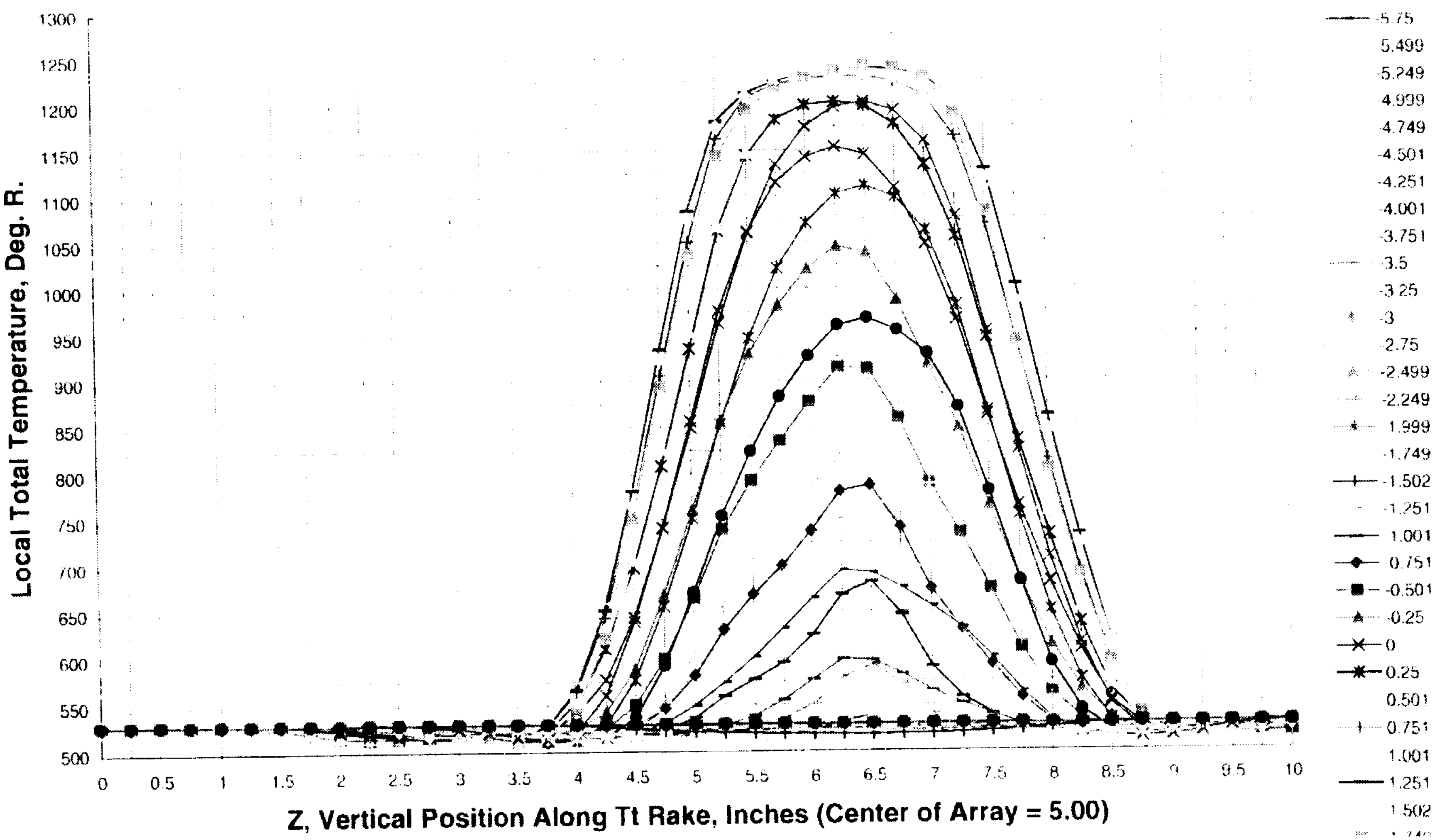
FIGURE 28



D. Baker, 9/2/97; FILE: ZT328.xls

FIGURE 29

Confluent Mixer Total Temperature Survey at x/D=0.1, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max=1240R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T337



D. Baker, 9/4/97. FILE: ZT337.xls

Figure 30(a). Confluent Mixer Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)coreTt)fan, 0.1 Mn)FS, Tt)max=1152R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T338

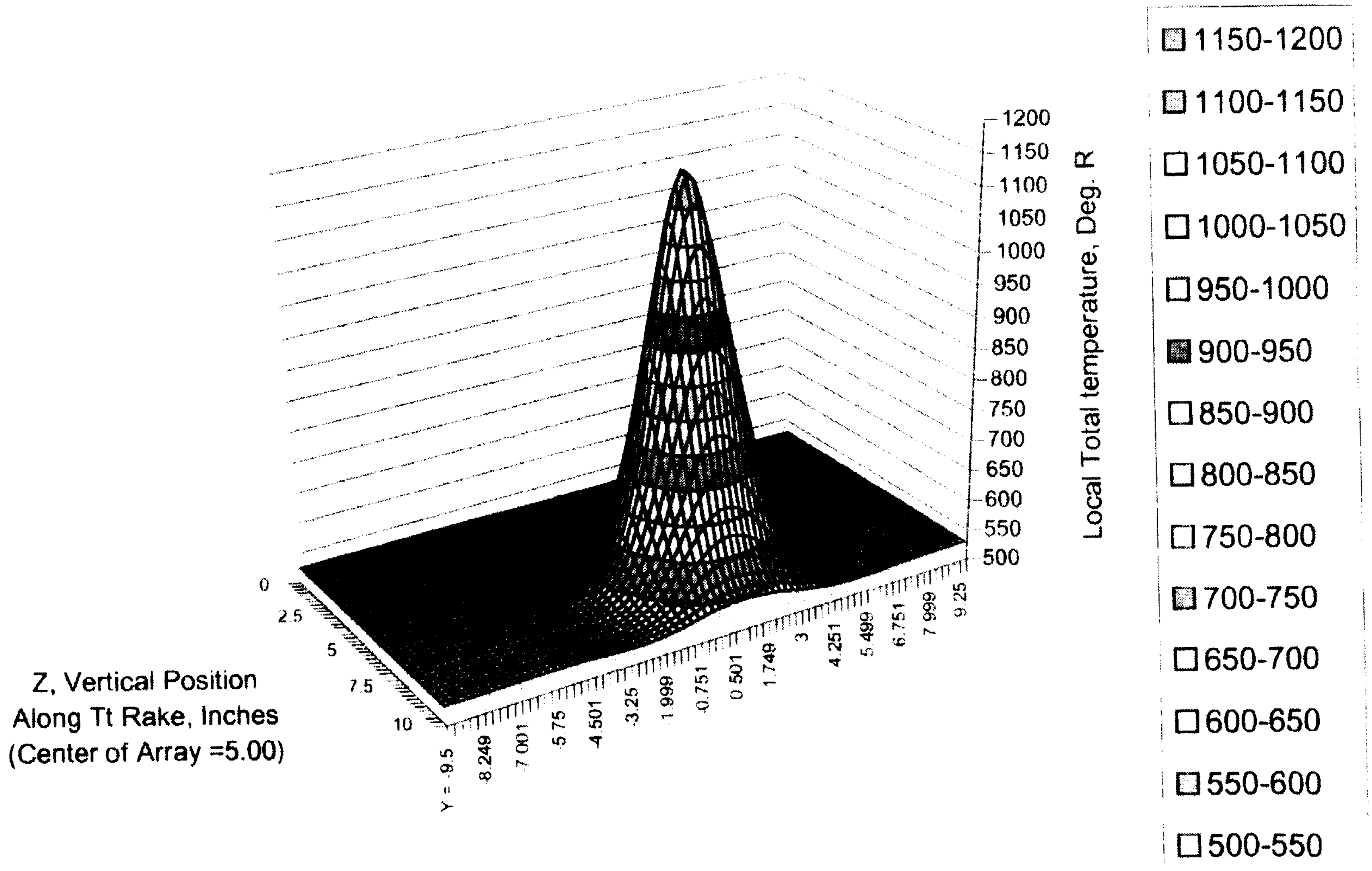
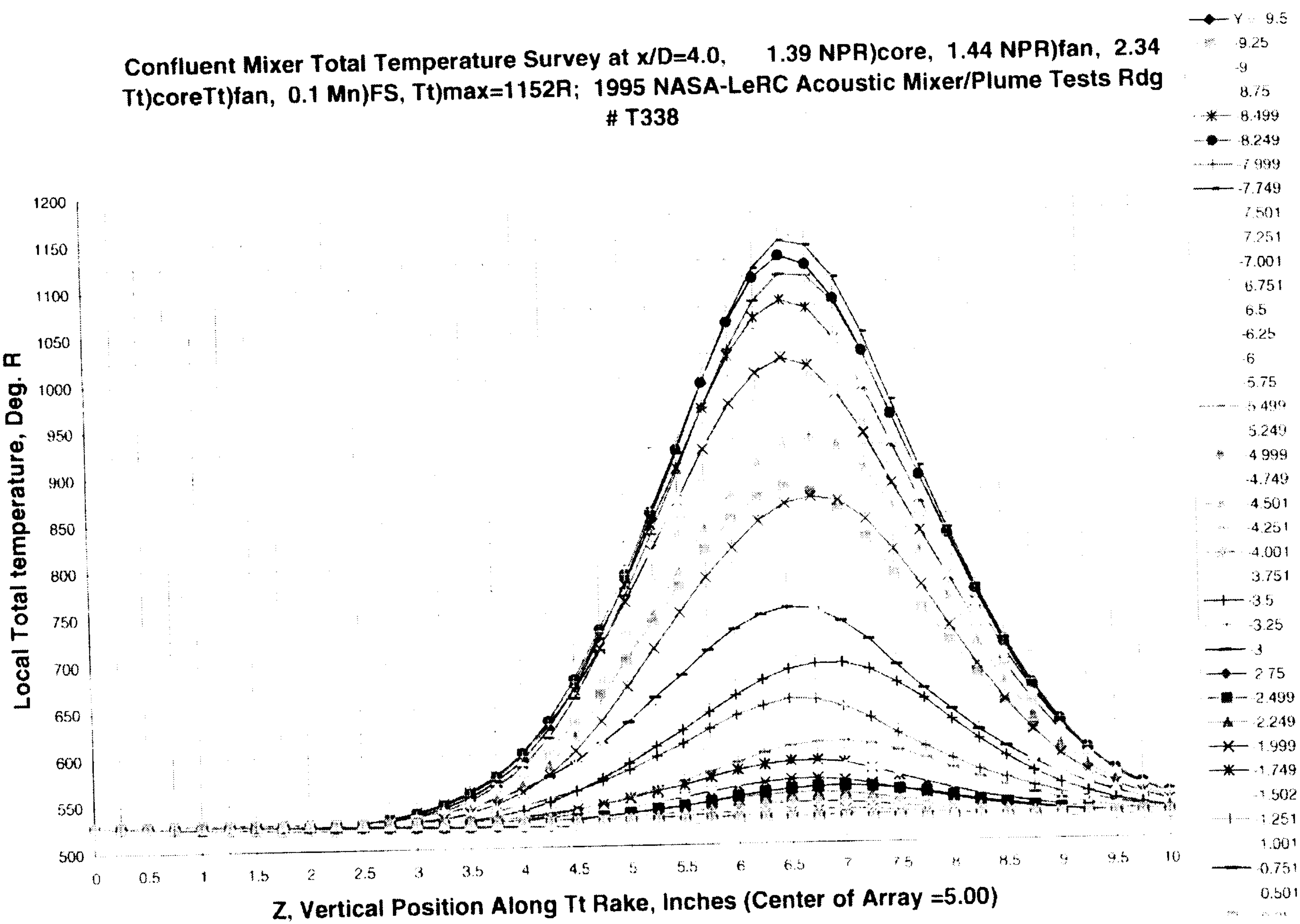


FIGURE 30 (b)

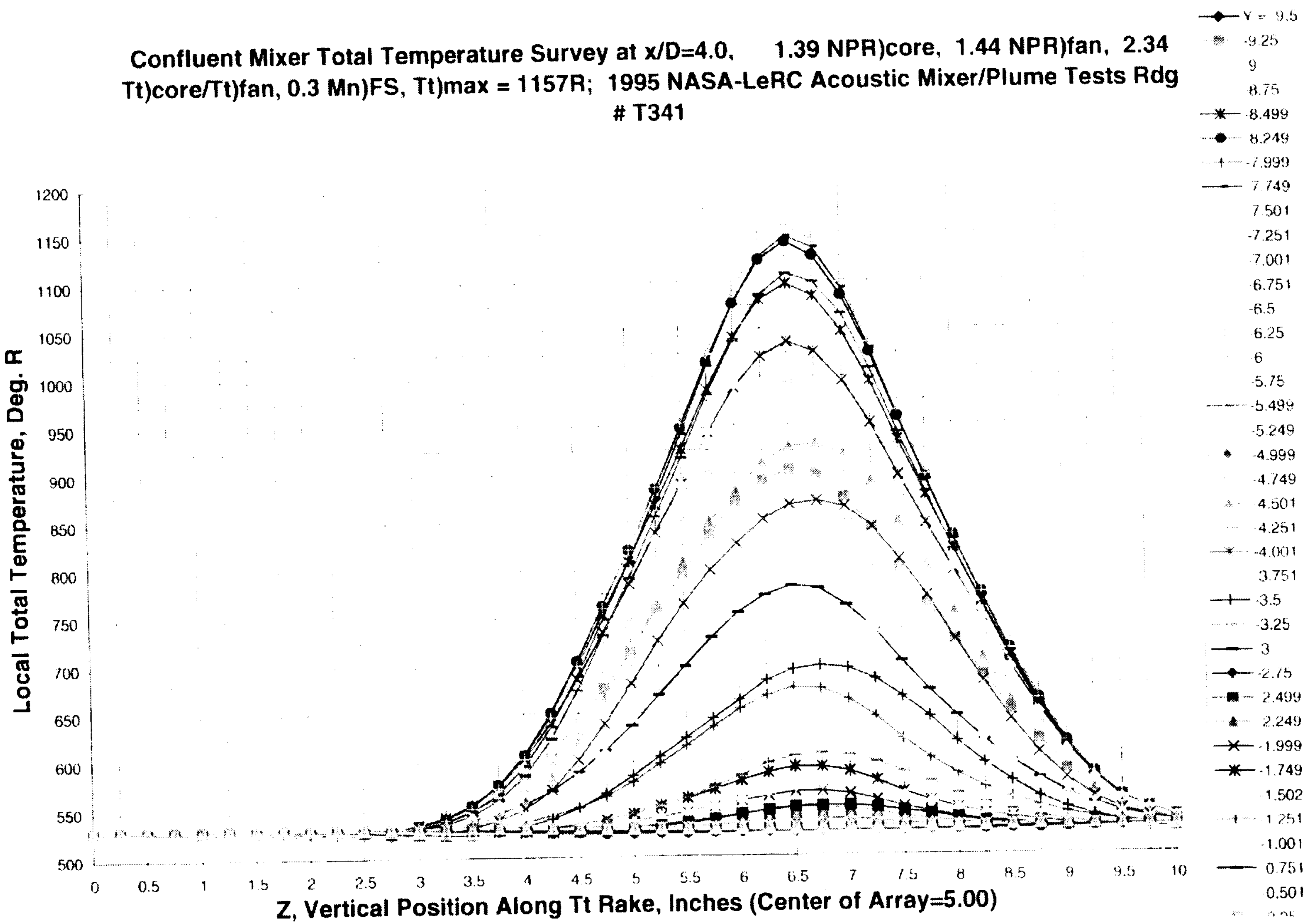
Confluent Mixer Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)coreTt)fan, 0.1 Mn)FS, Tt)max=1152R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T338



D. Baker, 9/2/97; FILE: ZT338.xls

FIGURE 31

Confluent Mixer Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.3 Mn)FS, Tt)max = 1157R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T341



D. Baker, 9/2/97: FILE: Z1341.xls

Figure 32(a). 12L Baseline (12CL) Mixer Total Temperature Survey at x/D=0.1, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/tt)fan, 0.1 Mn)FS, Tt)max=1230R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, RDG # T355

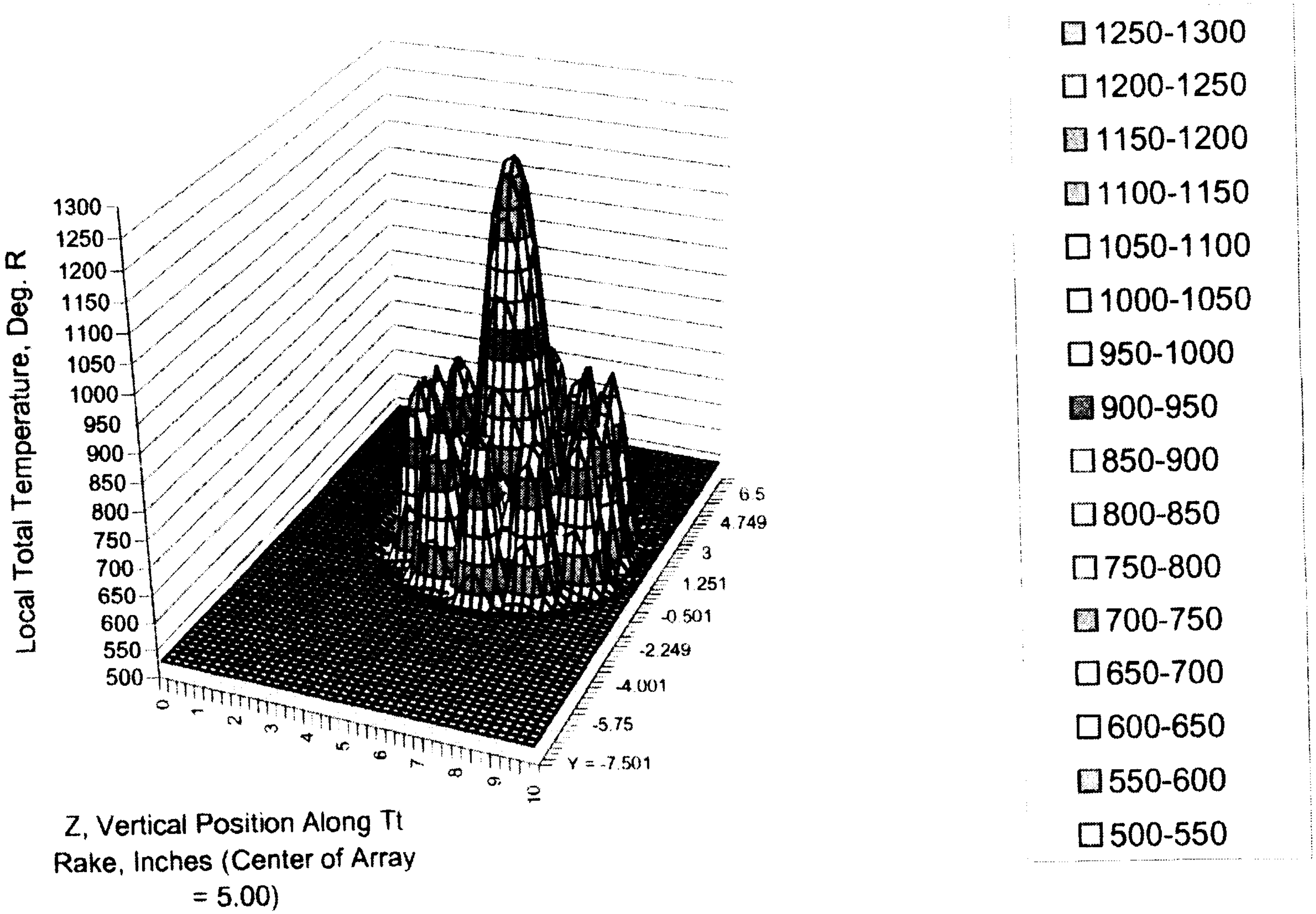
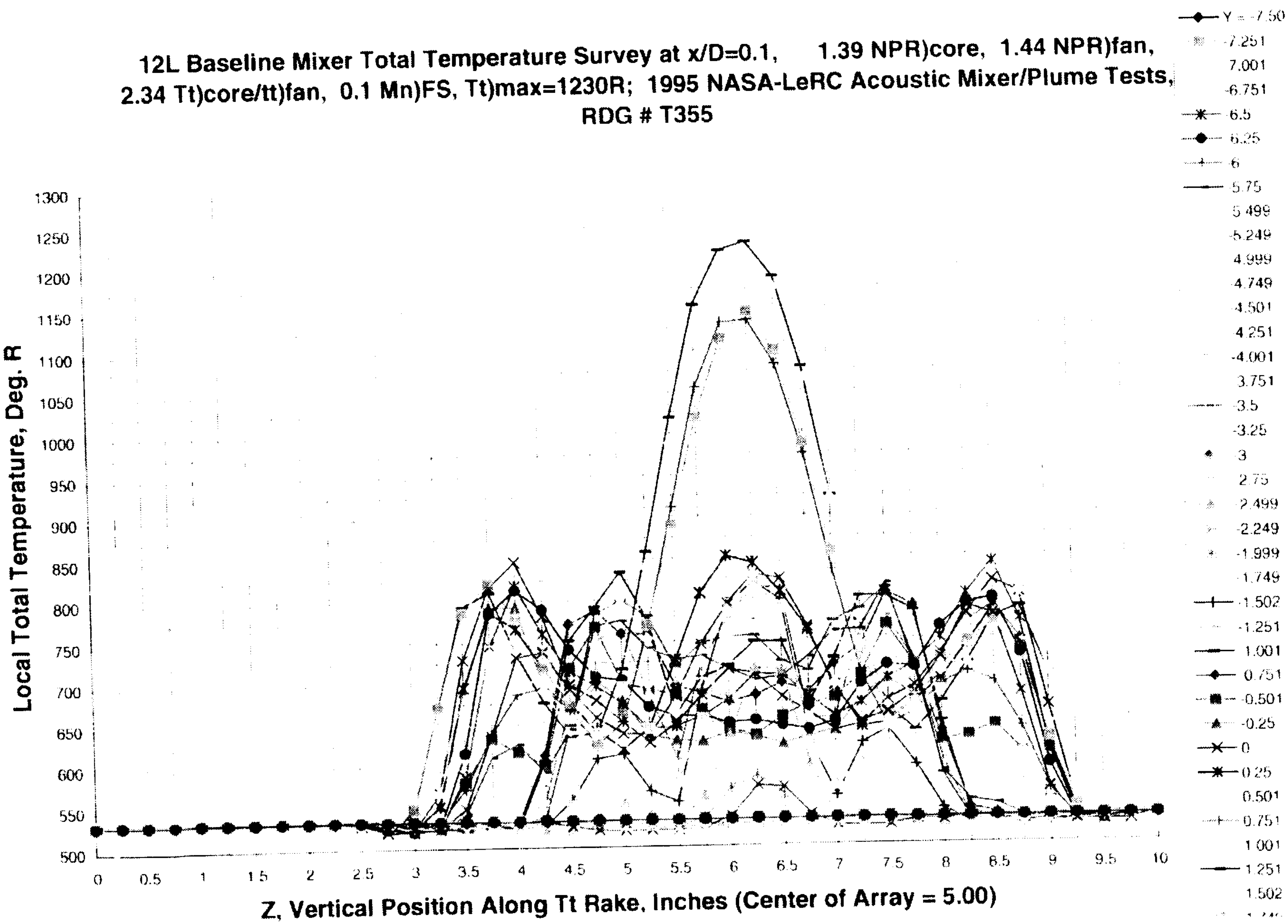


FIGURE 32 (b)

12L Baseline Mixer Total Temperature Survey at x/D=0.1, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/tt)fan, 0.1 Mn)FS, Tt)max=1230R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, RDG # T355



D. Baker, 9/4/97, FILE: ZT355.xls

Figure 33(a). 12L Baseline (12CL) Mixer Total Temperature Survey at x/D=0.5, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.3 Mn)FS, Tt)max = 1210R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # T361

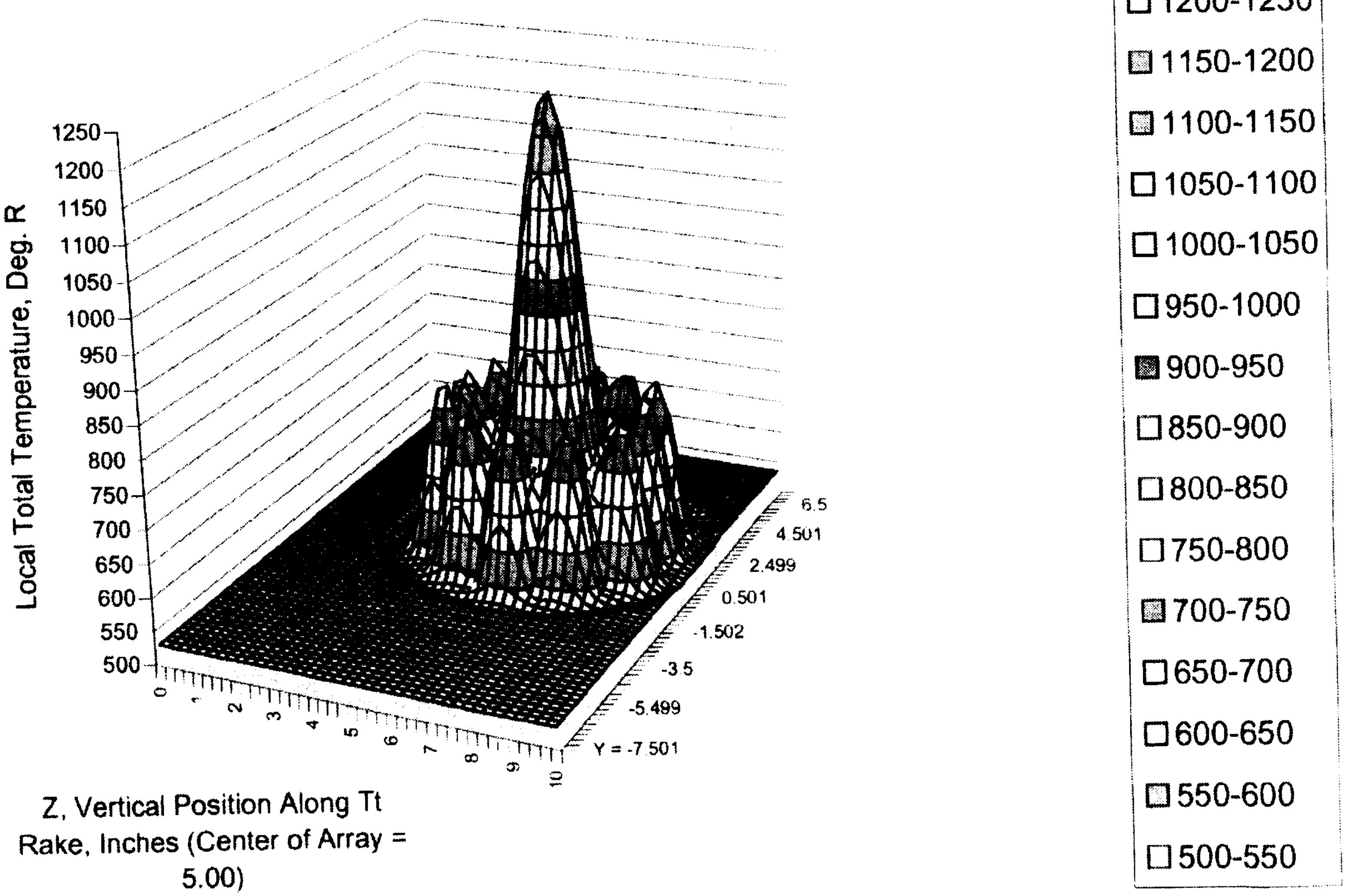
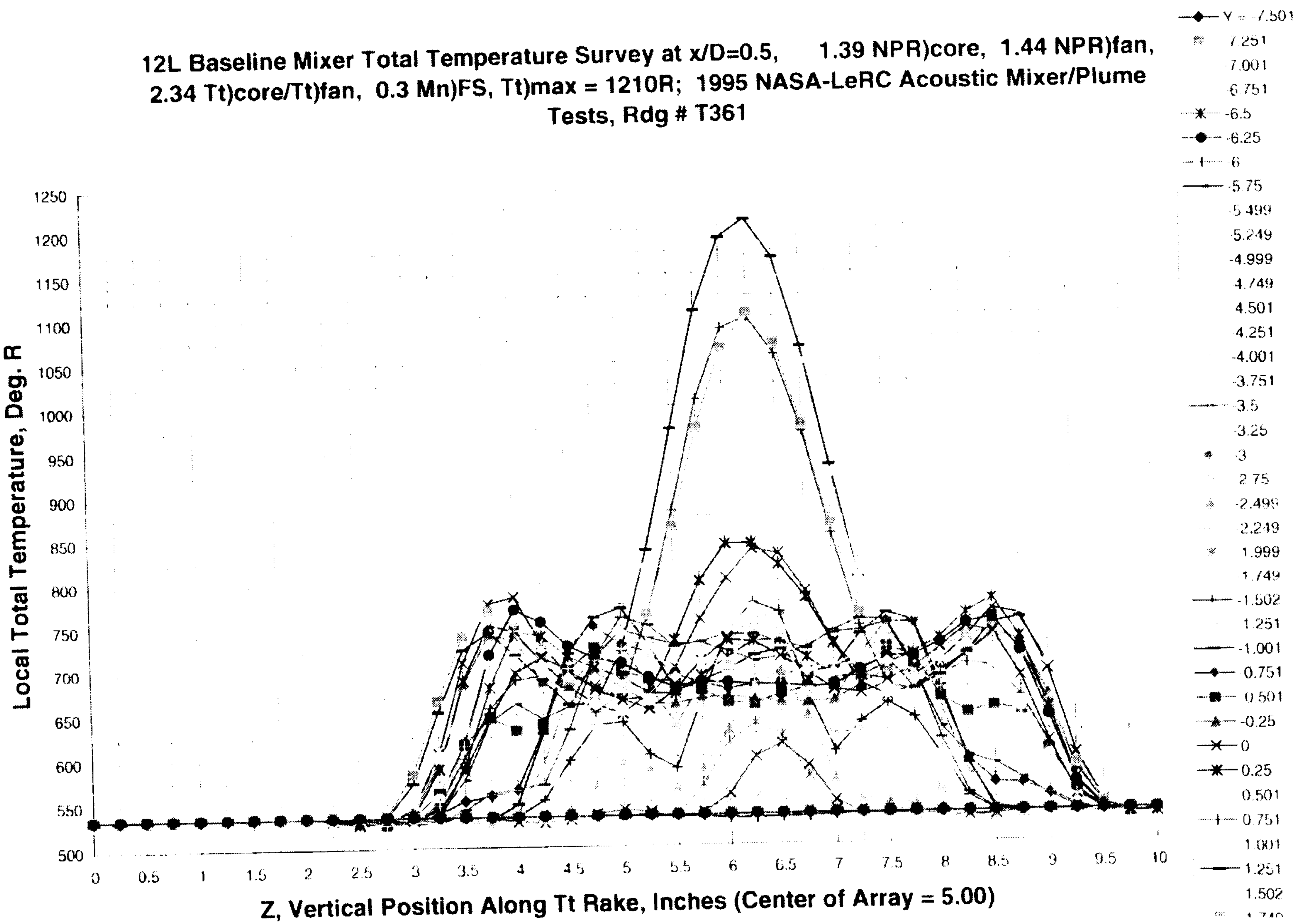


FIGURE 33 (b)

12L Baseline Mixer Total Temperature Survey at x/D=0.5, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.3 Mn)FS, Tt)max = 1210R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # T361



D. Baker, 9/5/97: FILE: ZT361.xls

Figure 34(a). 12L Baseline (12CL) Mixer Total Temperature Survey at x/D=1.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 1149R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # T365

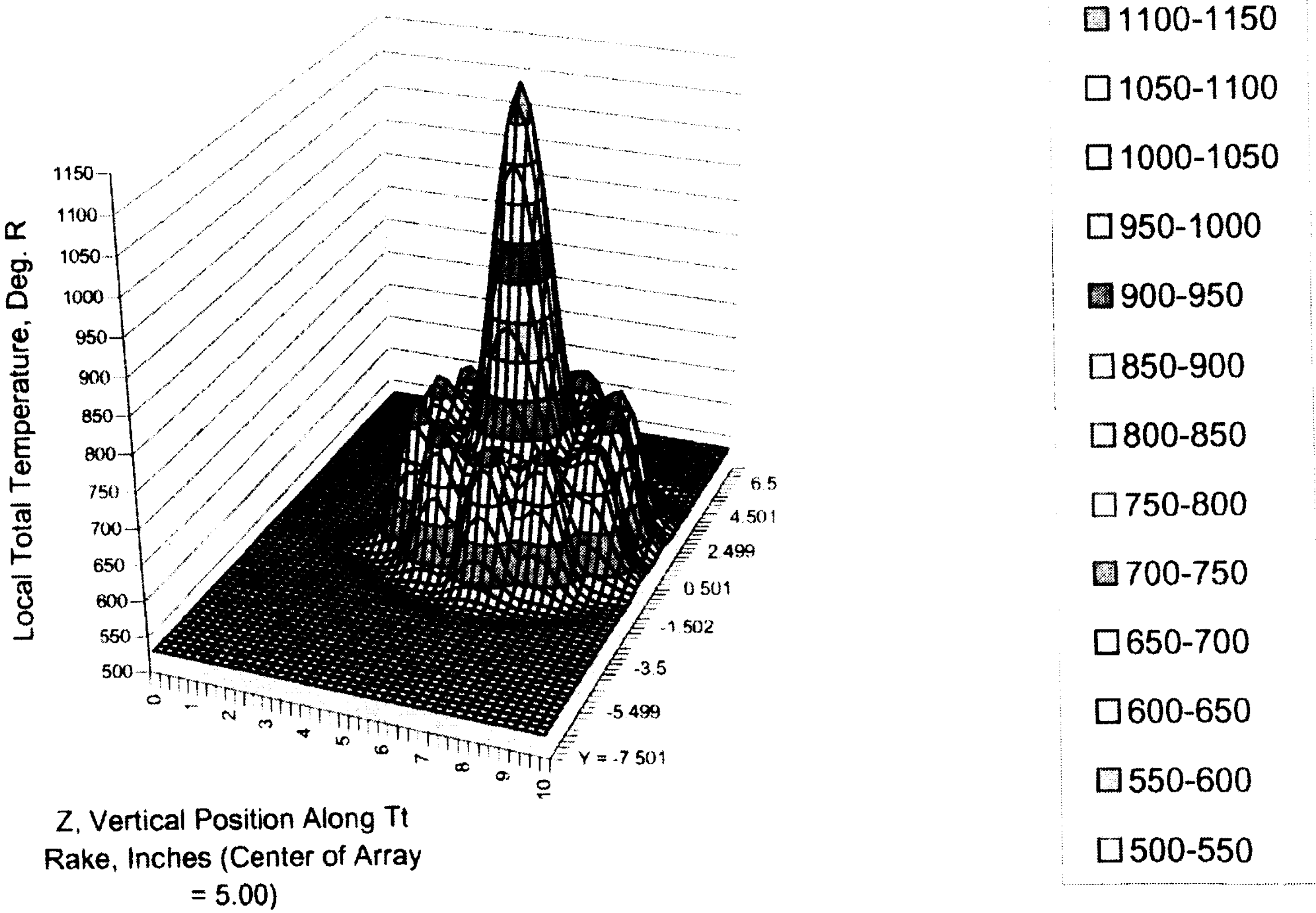
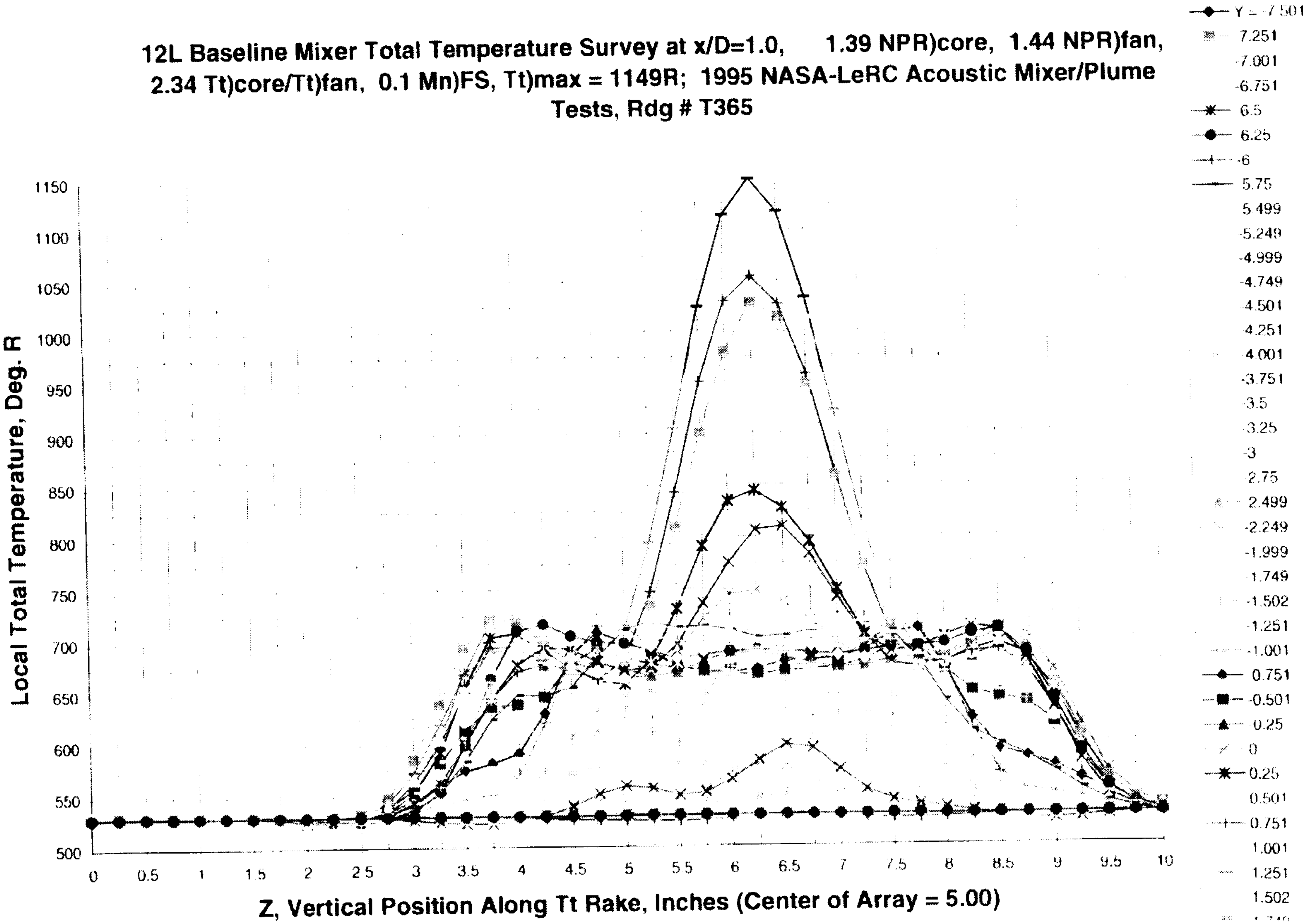


FIGURE 34 (b)



D. Baker, 9/4/97; FILE:ZT365.xls

Figure 35(a). 12L Baseline (12CL) Mixer Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 866R; 1995 NASA-LeRC Acoustic Mixer/PLume Tests, Rdg # T367

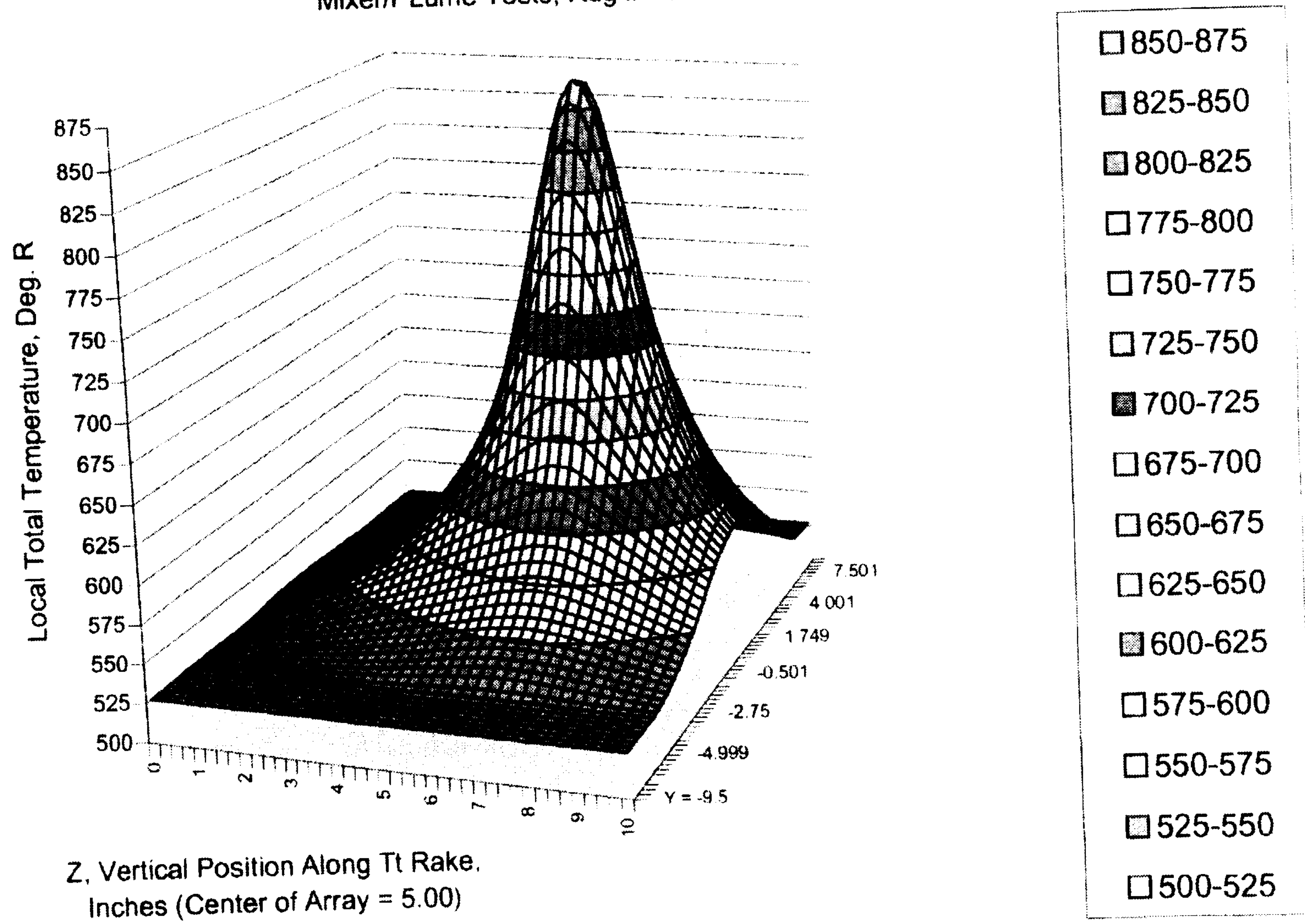
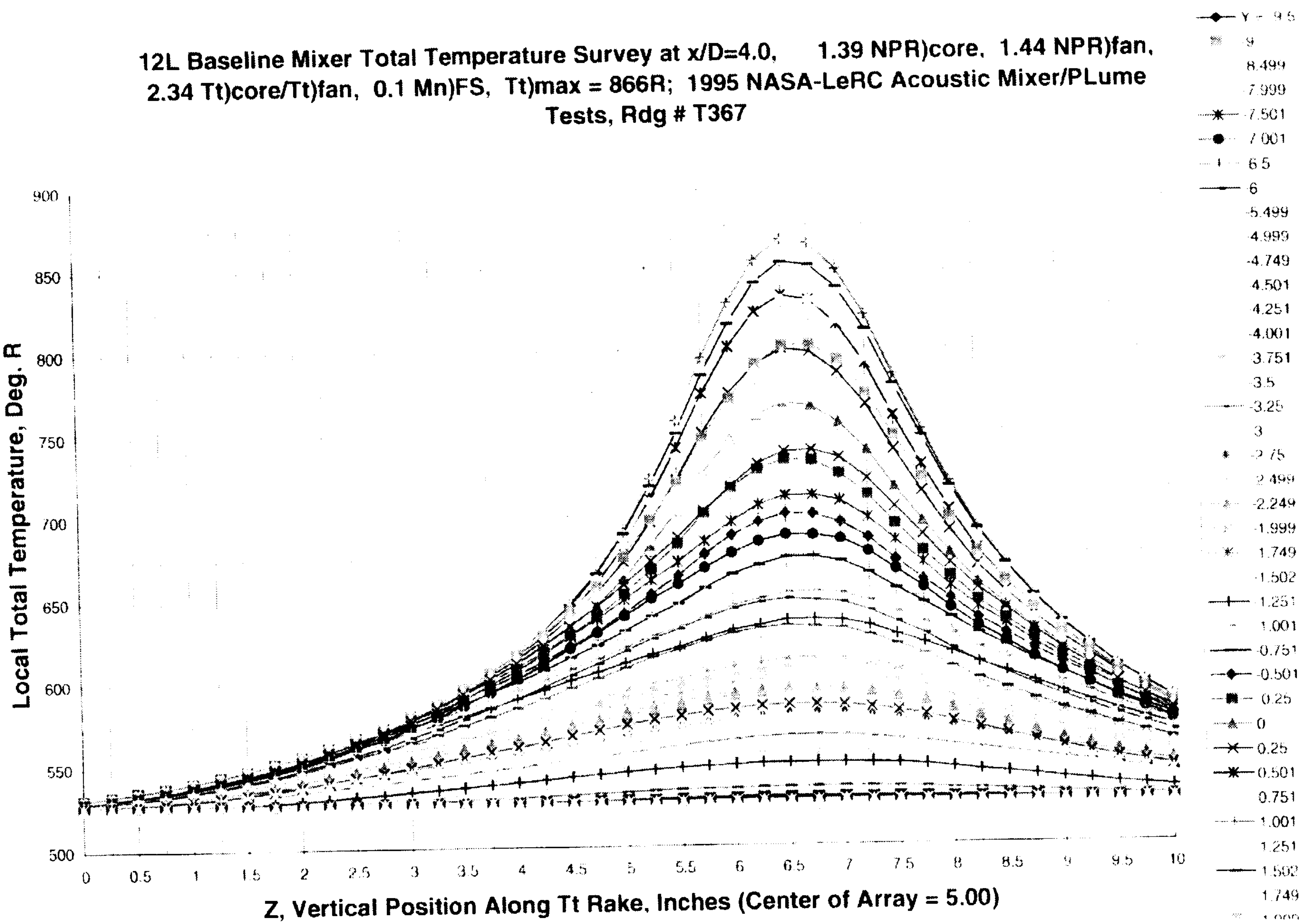
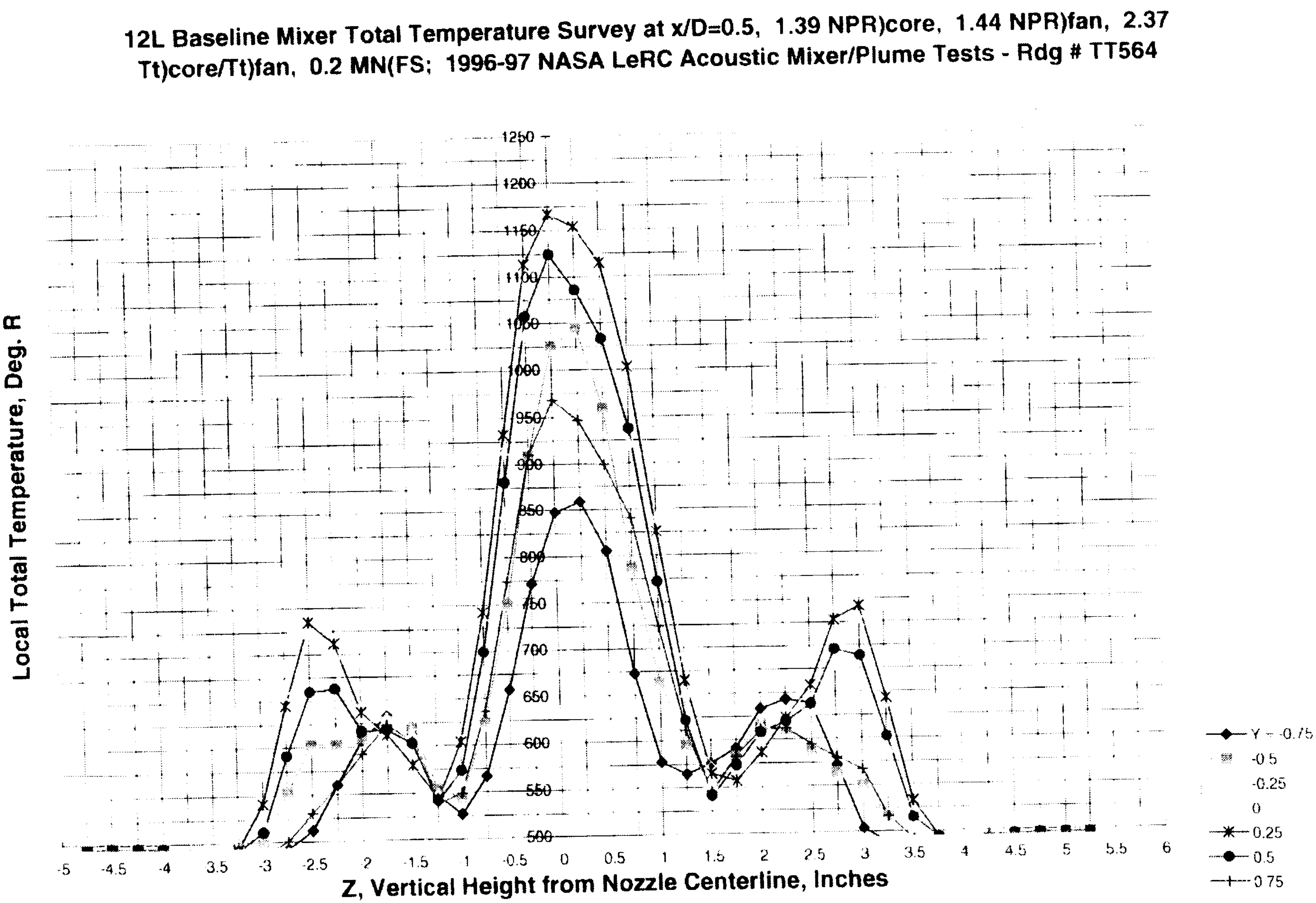


FIGURE 35 (b)



D. Baker, 9/4/97; FILE: ZT367.xls

FIGURE 36



D. Baker, 9/11/97: FILE: XTT564.xls

Figure 37(a). 12L Advanced Mixer (12UH) Total Temperature Survey at x/D=0.1, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS; Tt)max = 1145R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T409

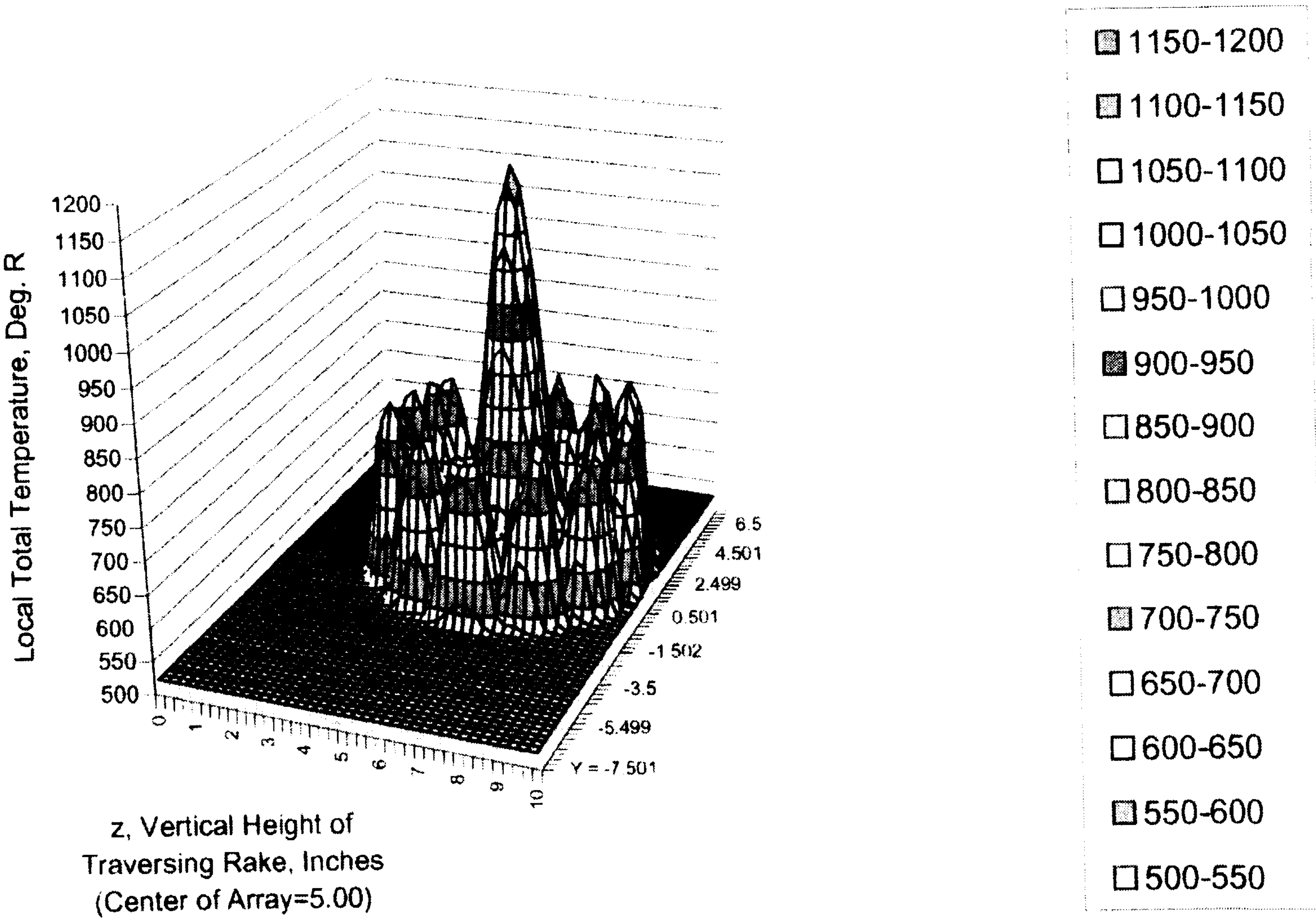
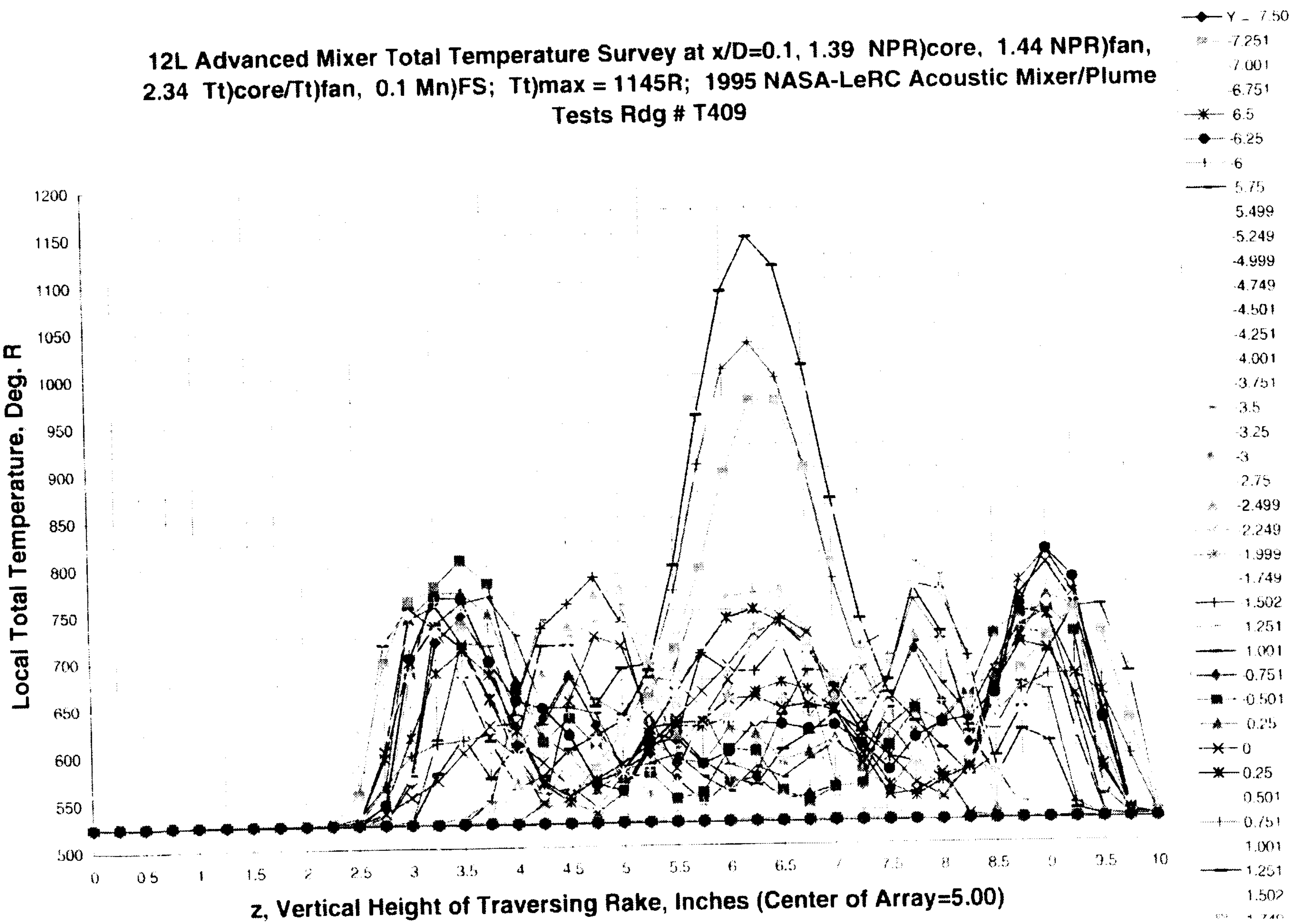


FIGURE 37(b)



D. Baker, 9/2/97; FILE: ZT409.xls

Figure 38(a). 12L Advanced Mixer (12UH) Total Temperature Survey at x/D=0.5, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.5 Mn)FS, Tt)max=1084R; 1995 NASA-LeRC Acoustic Mixer/Plume Testing Rdg # T410

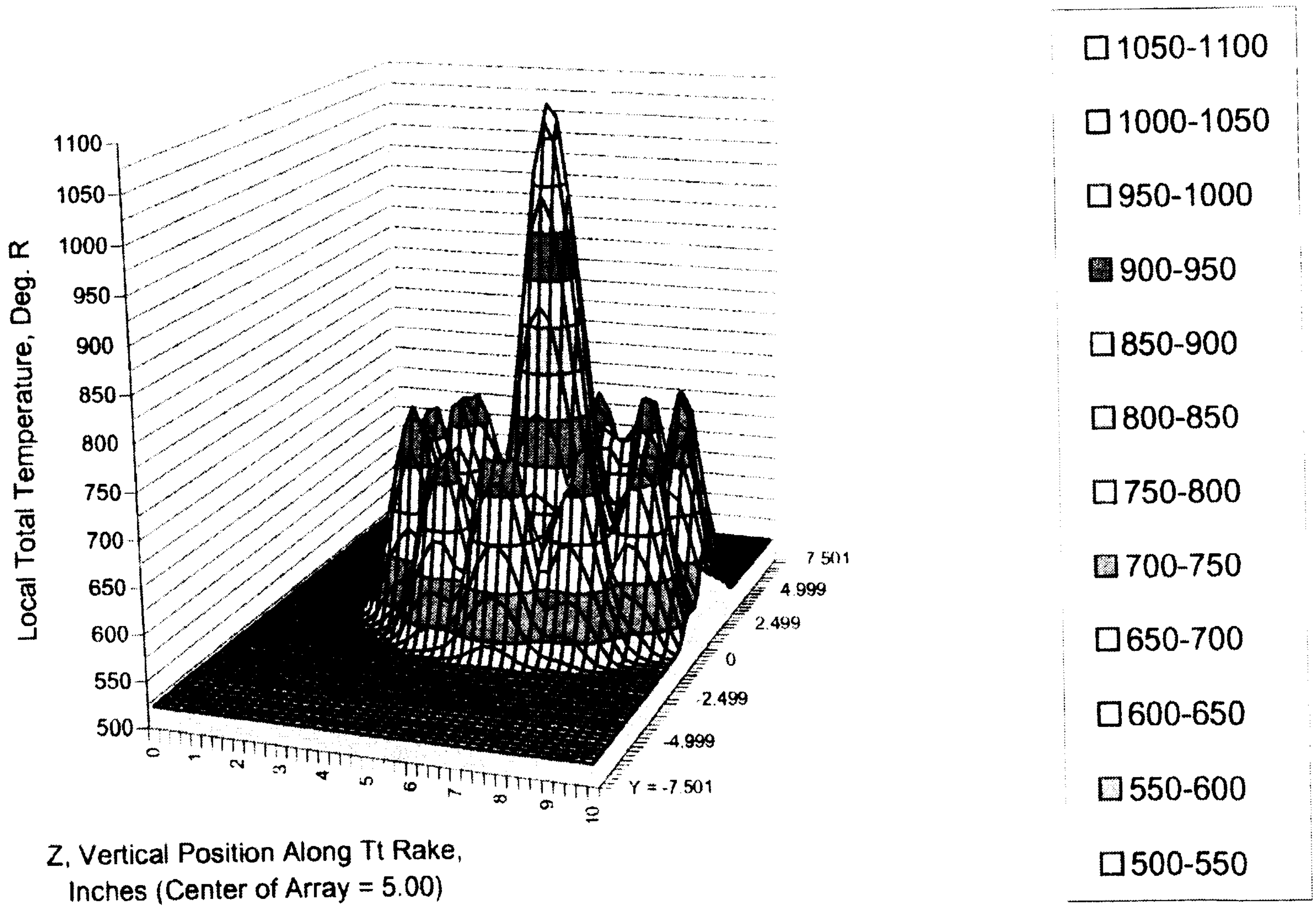
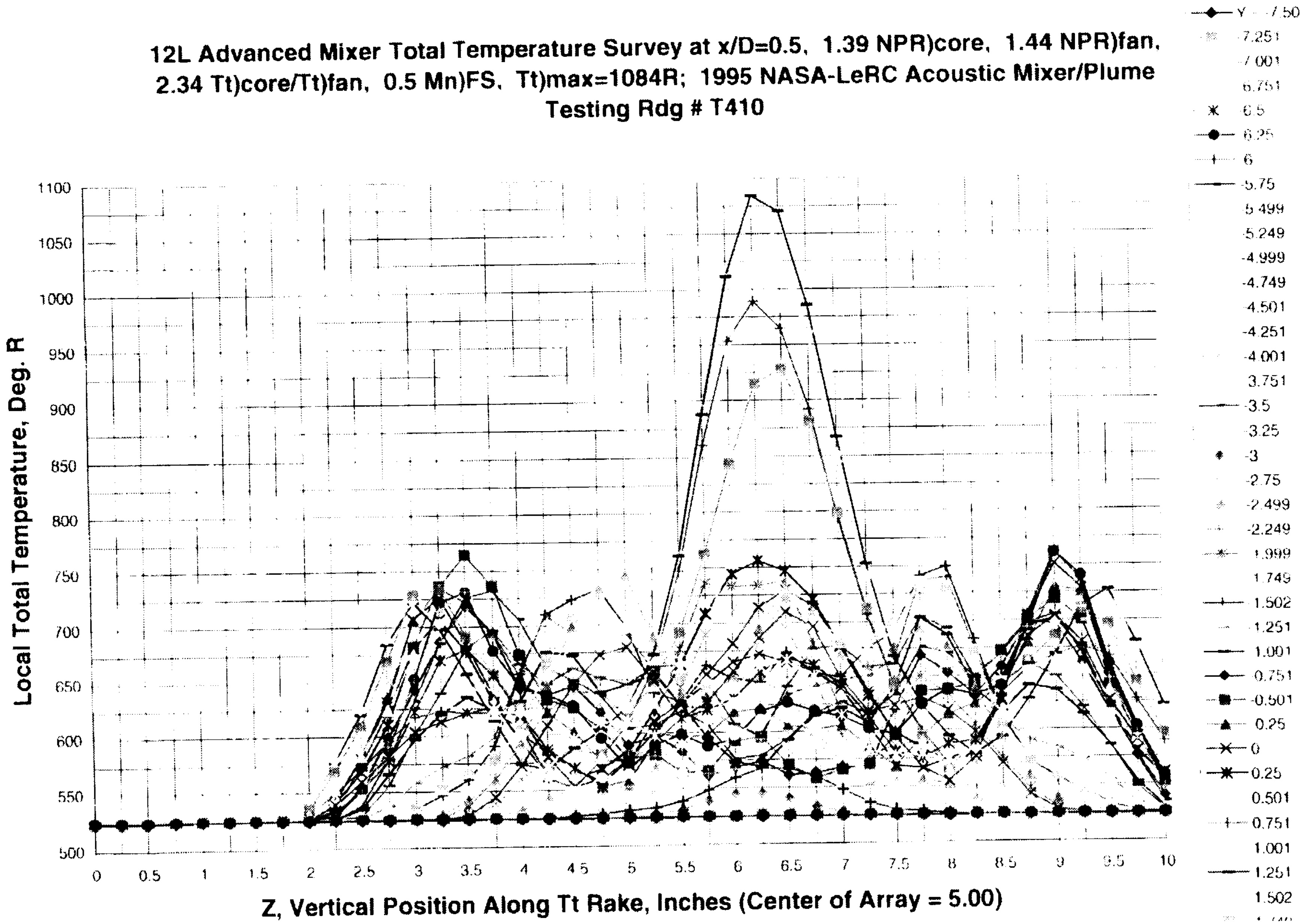


FIGURE 38 (b)



D. Baker, 9/4/97, FILE: ZT410.xls

Figure 39(a). 12L Advanced Mixer (12UH) Total Temperature Survey at x/D=1.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1Mn)FS, Tt)max=1007R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T418

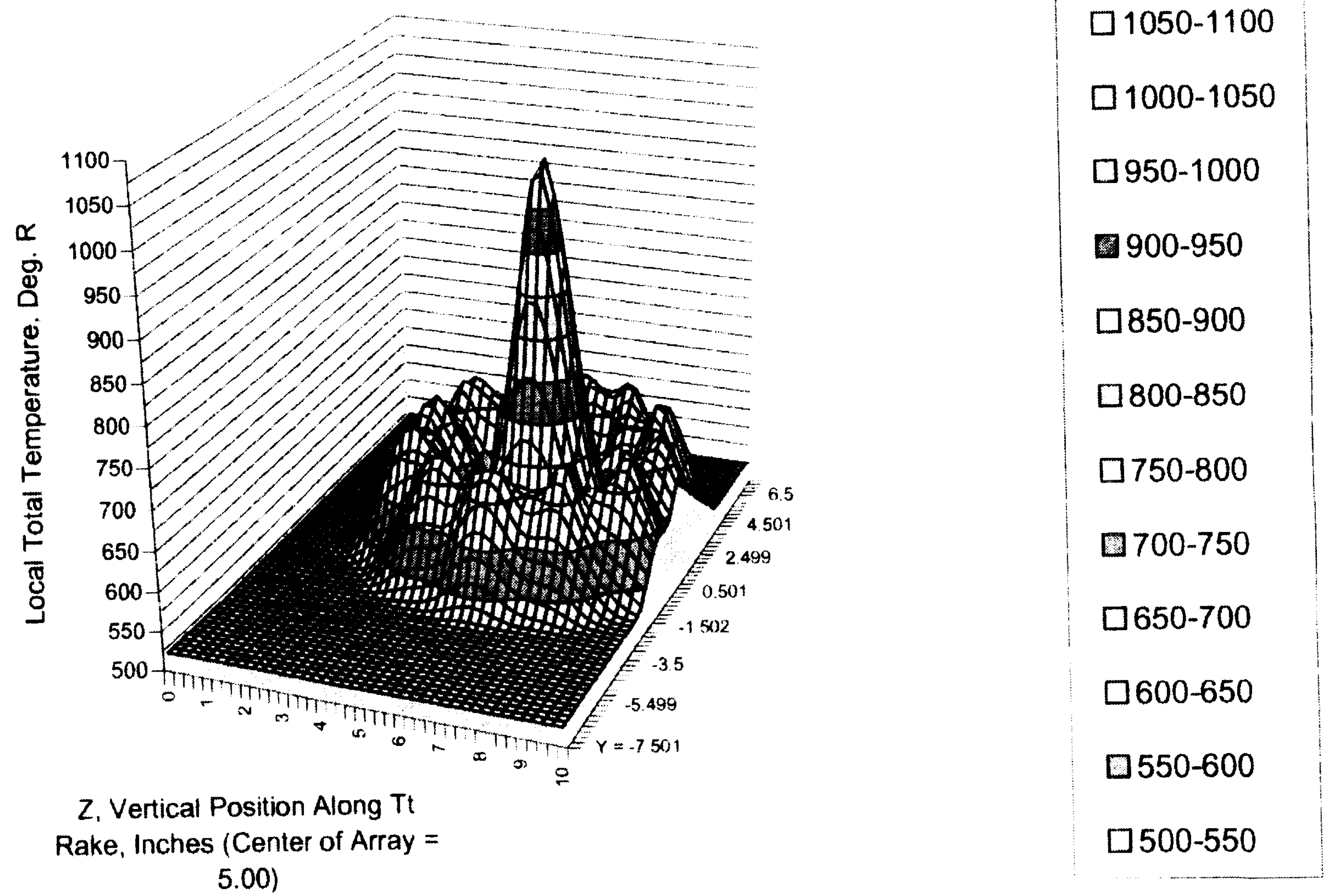
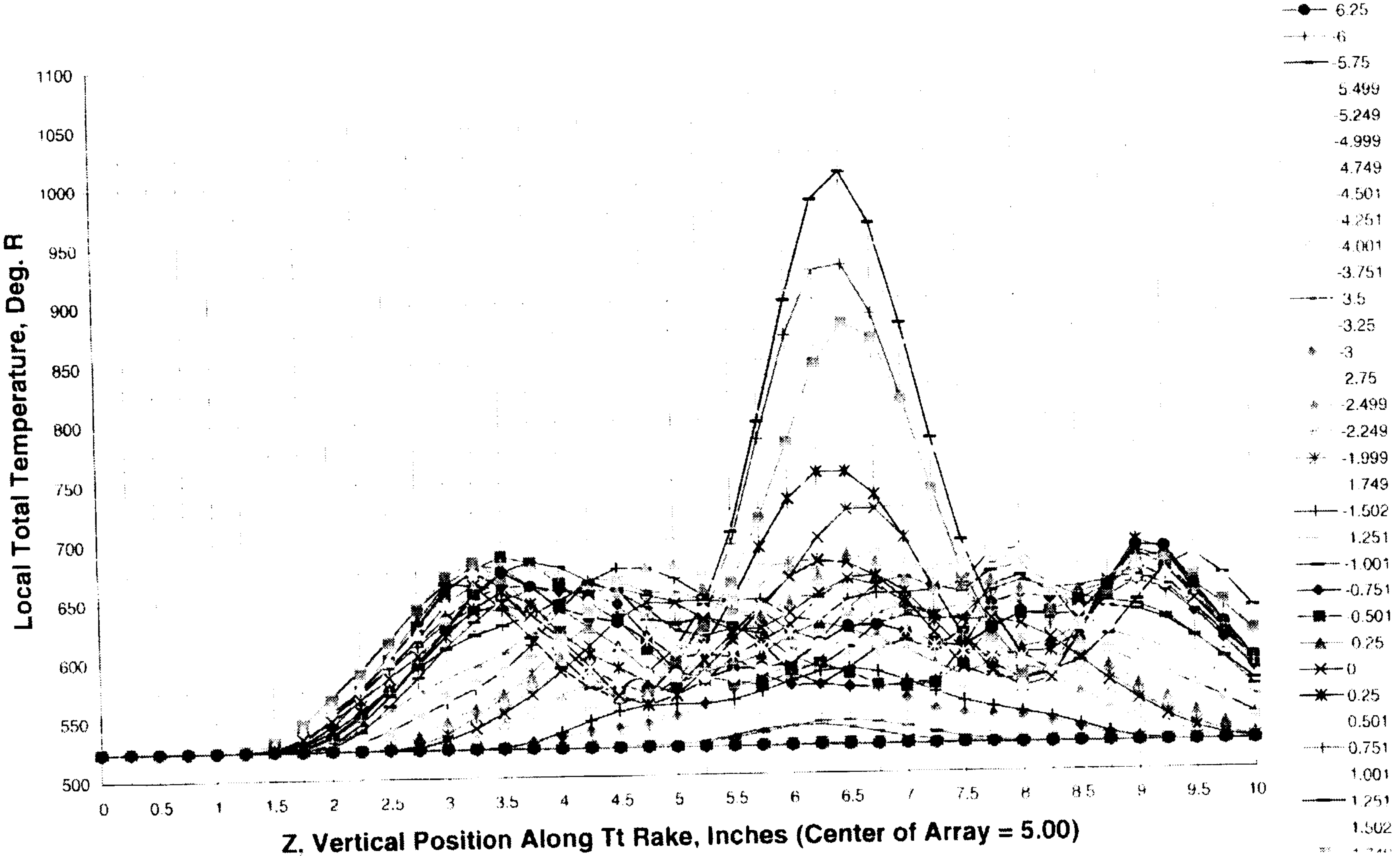


FIGURE 39 (b)

12L Advanced Mixer Total Temperature Survey at x/D=1.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1Mn)FS, Tt)max=1007R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T418



D. Baker, 9/4/97,FILE: ZT418.xls

Figure 40(a). 12L Advanced Mixer (12UH) Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS; Tt)max = 785R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T420

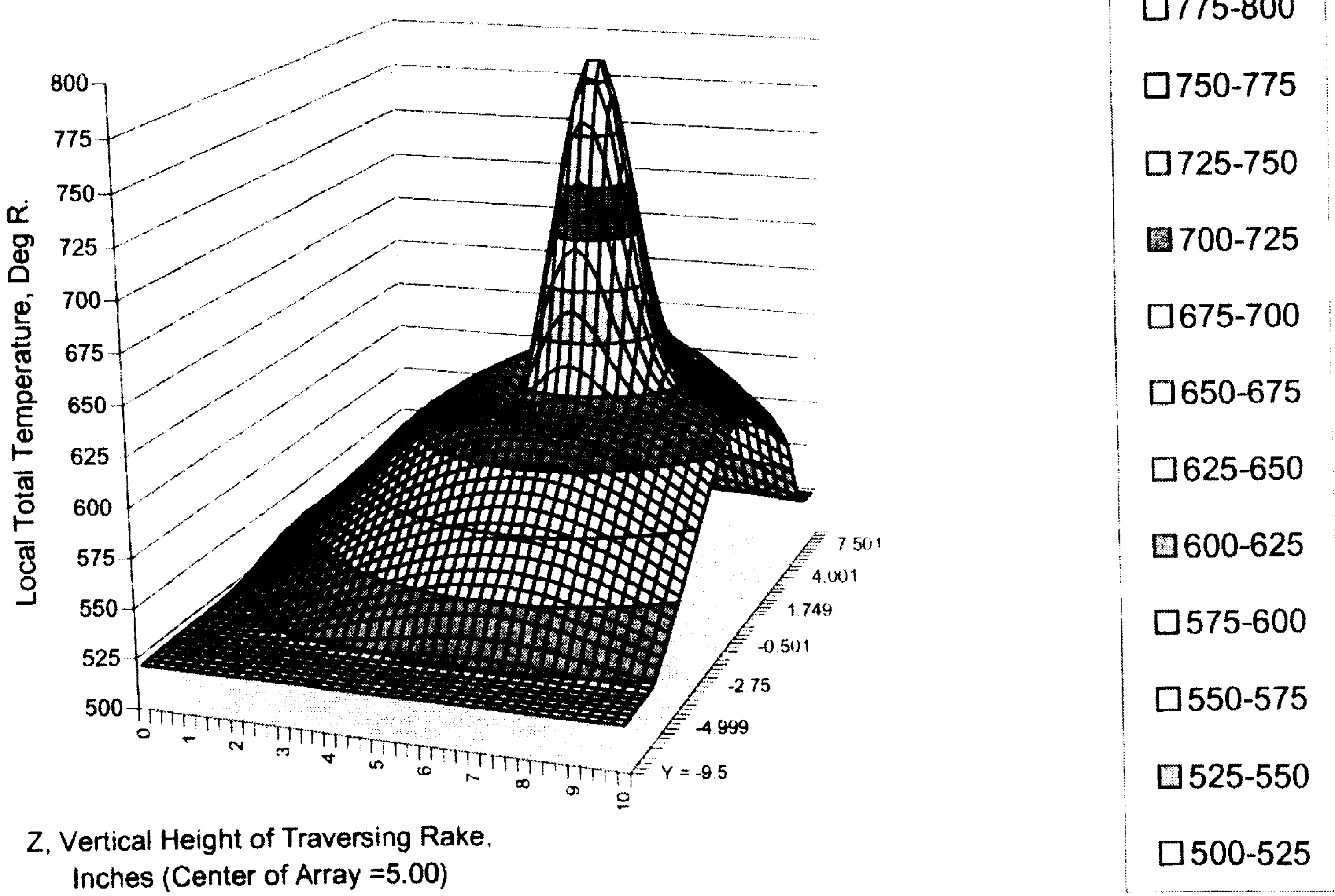
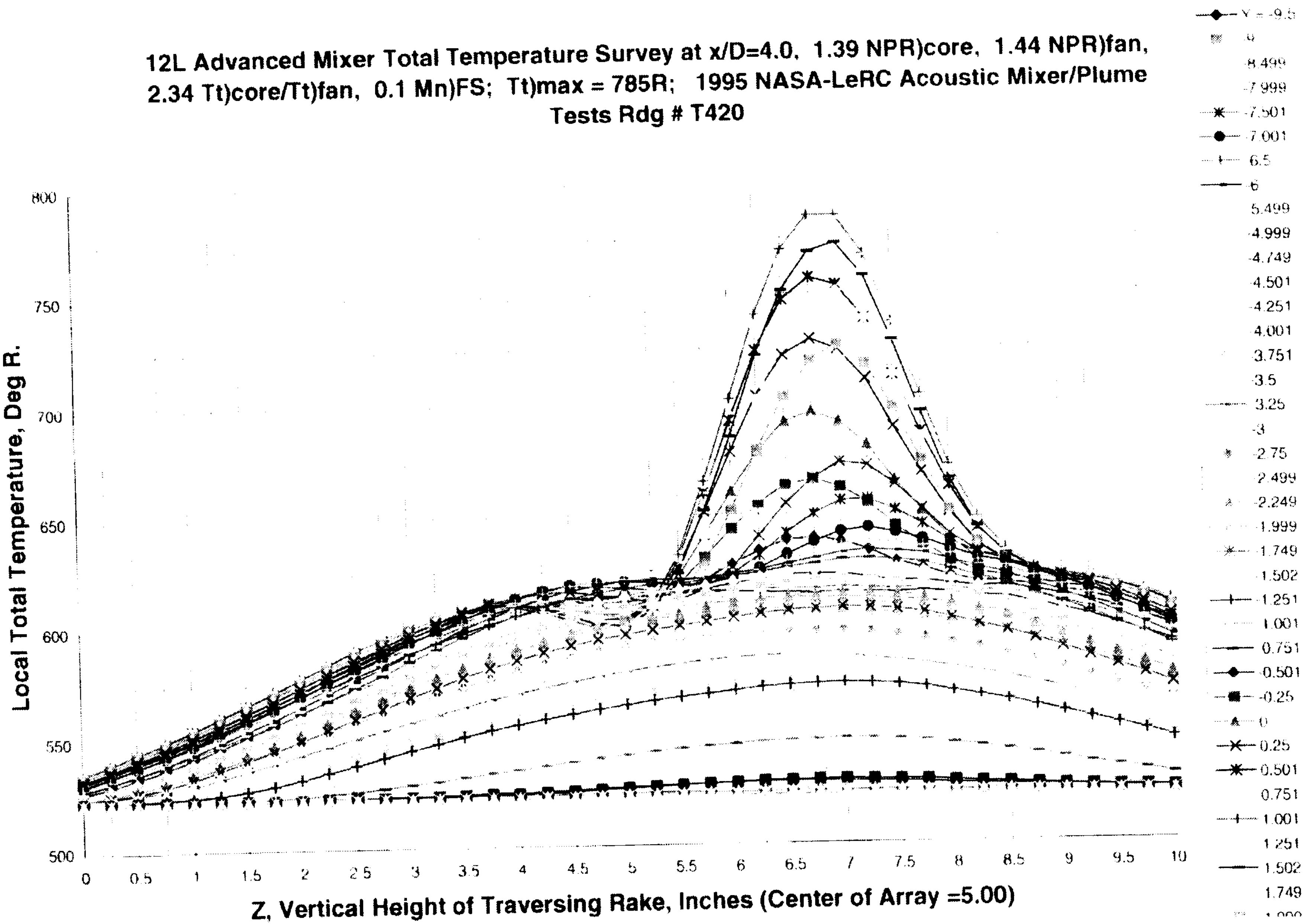


FIGURE 40 (b)

12L Advanced Mixer Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS; Tt)max = 785R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T420



D. Baker, 9/2/97: FILE: ZT420.xls

Figure 41(a). 16L Acoustic Mixer (16UH) Total Temperature Survey at x/D=0.1, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 981R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T378

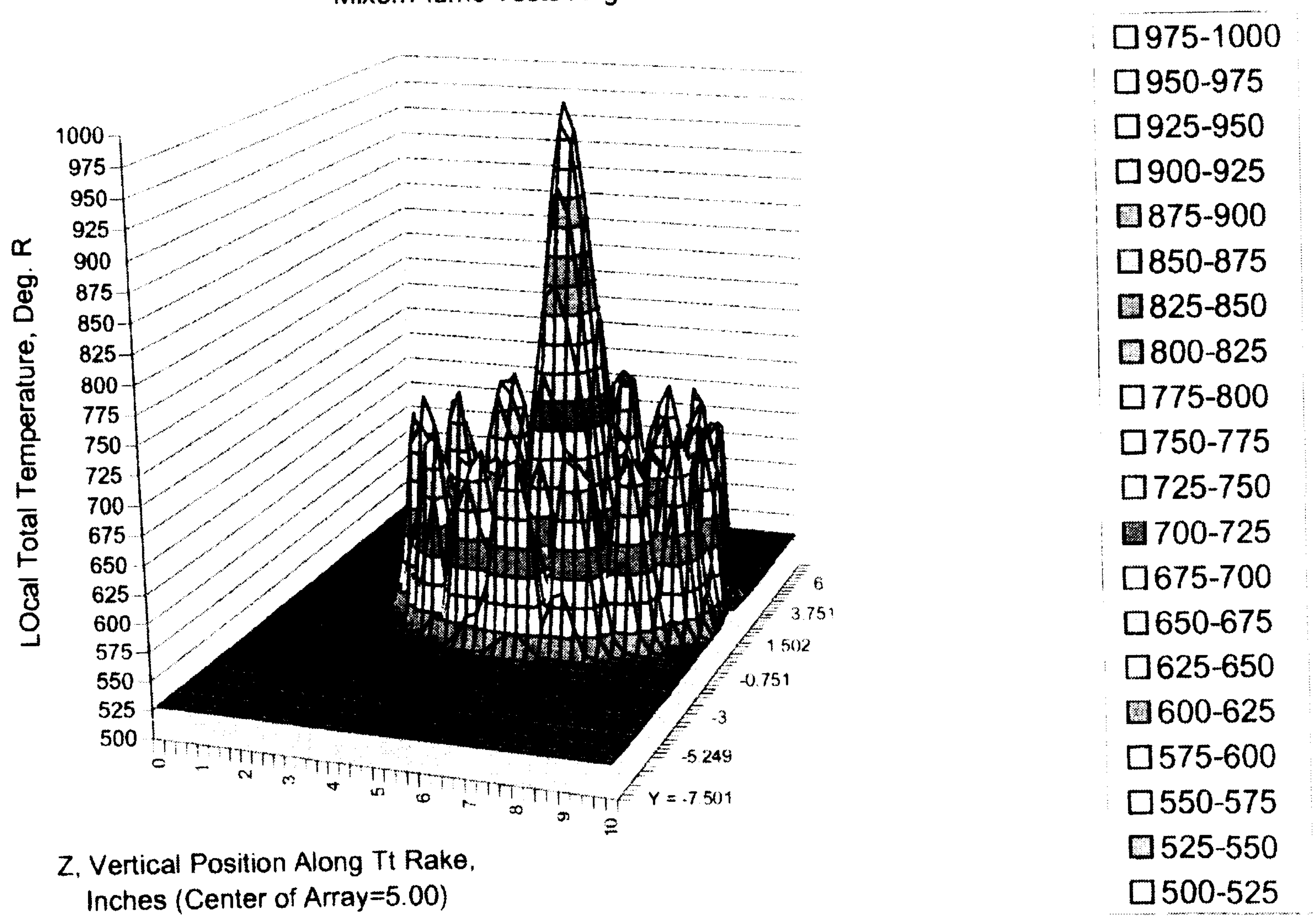
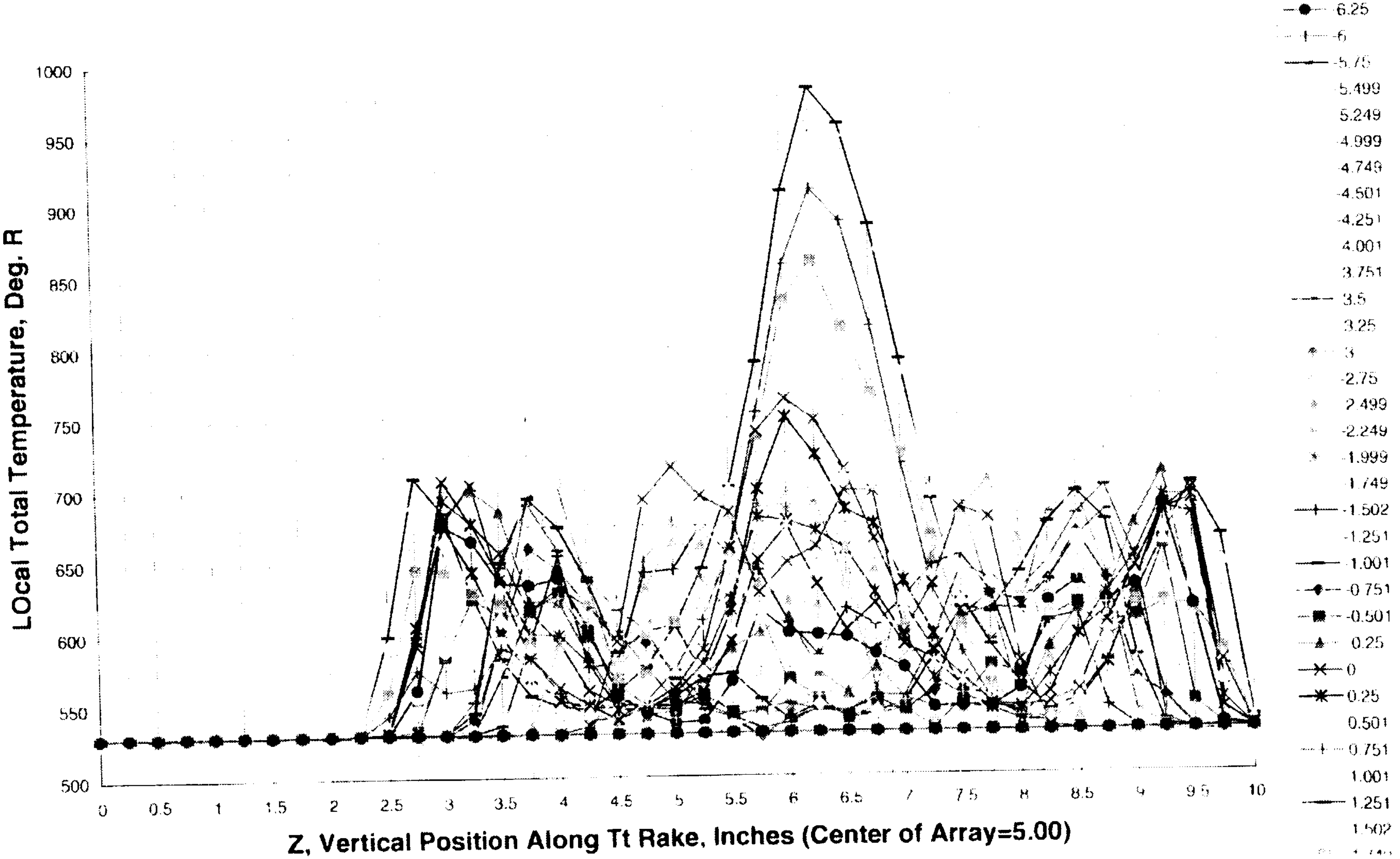


FIGURE 41 (b)

16L Acoustic Mixer Total Temperature Survey at x/D=0.1, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 981R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T378



D. Baker, 9/2/97; FILE: ZT378.xls

Figure 42(a). 16L Acoustic Mixer (16UH) Total Temperature Survey at x/D=0.5, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 935R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # T380

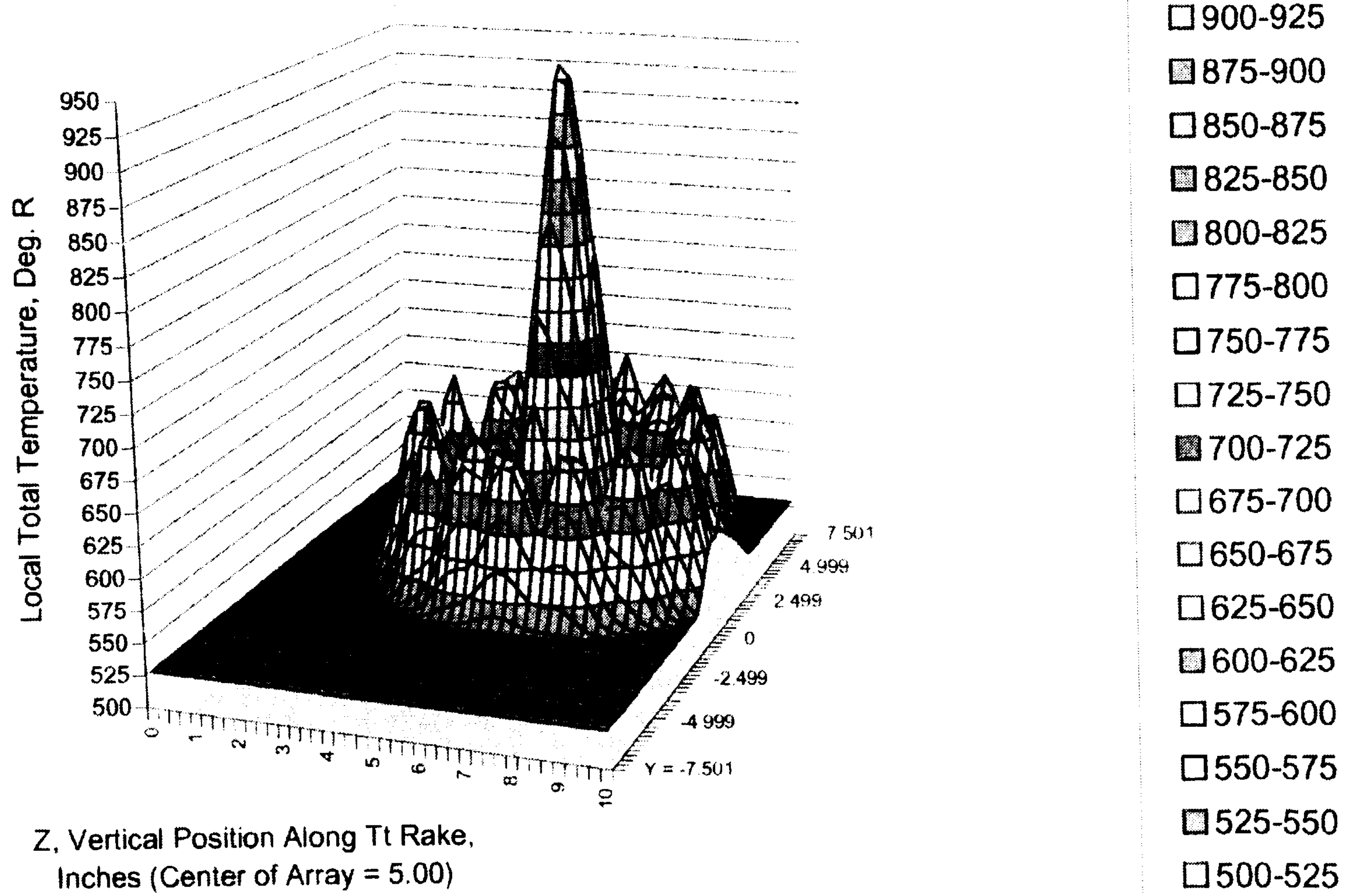
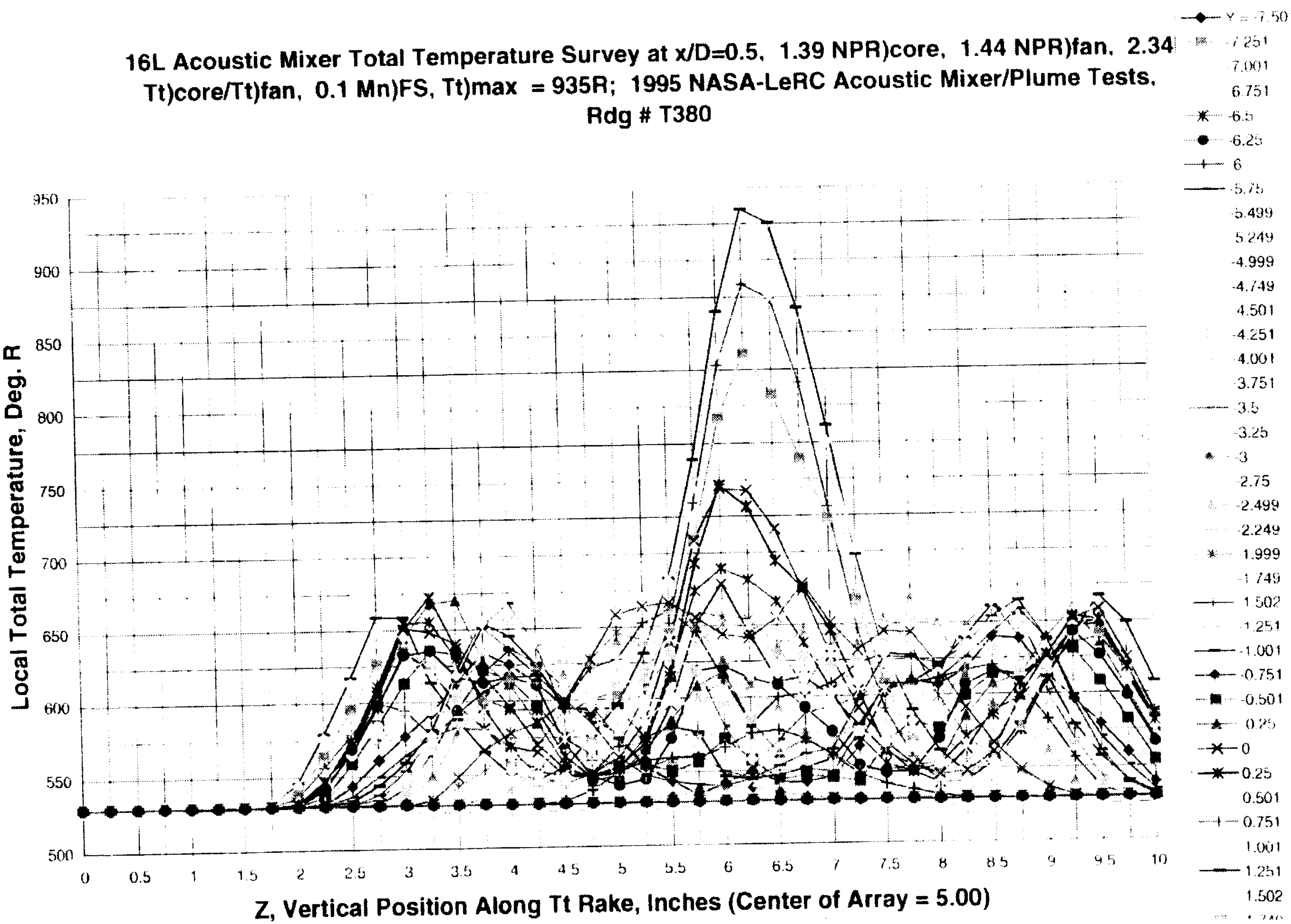


FIGURE 42 (b)



D. Baker, 9/4/97; FILE: ZT380.xls

Figure 43(a). 16L Acoustic Mixer (16UH) Total Temperature Survey at x/D=1.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)Max=897R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # T388

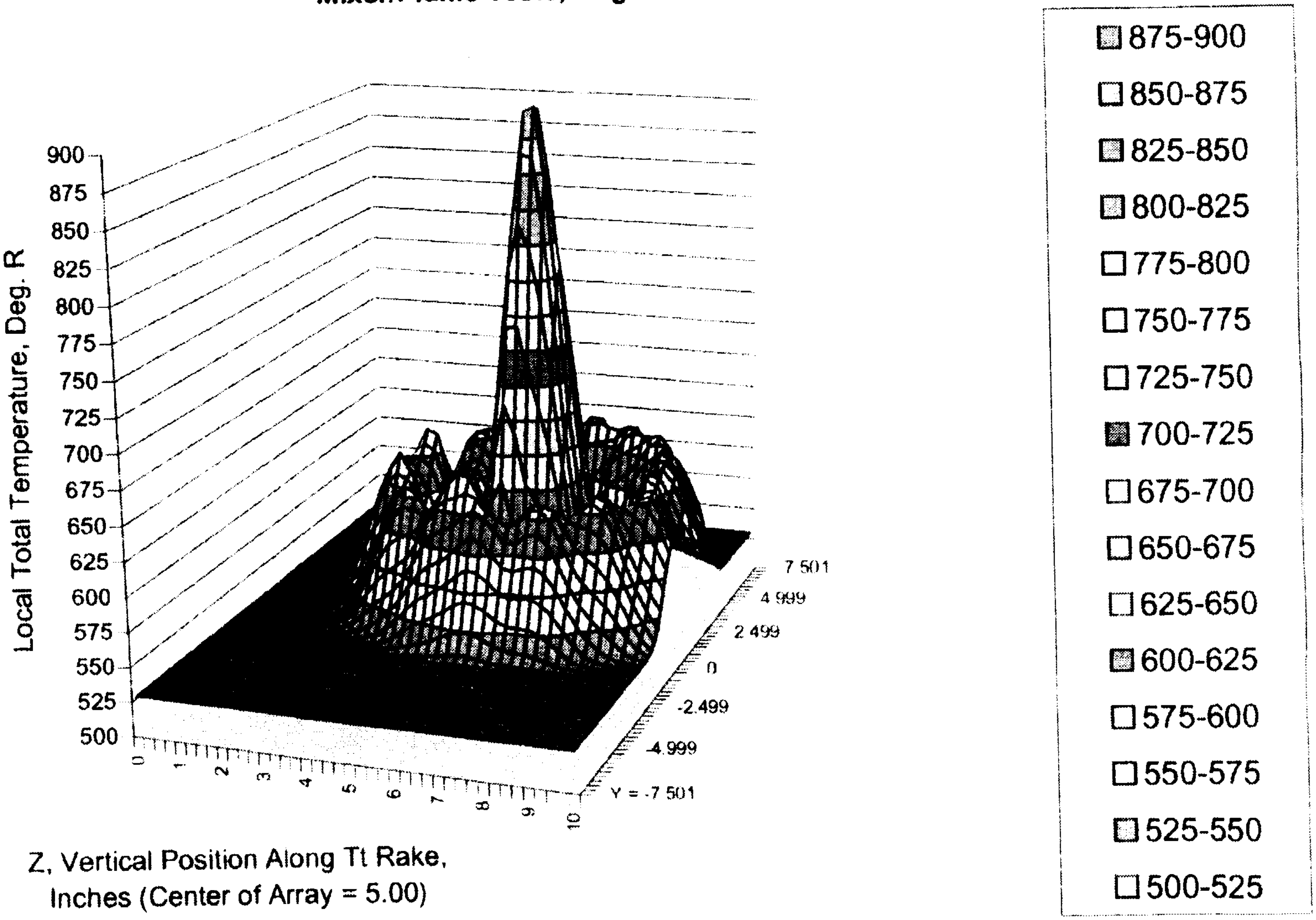
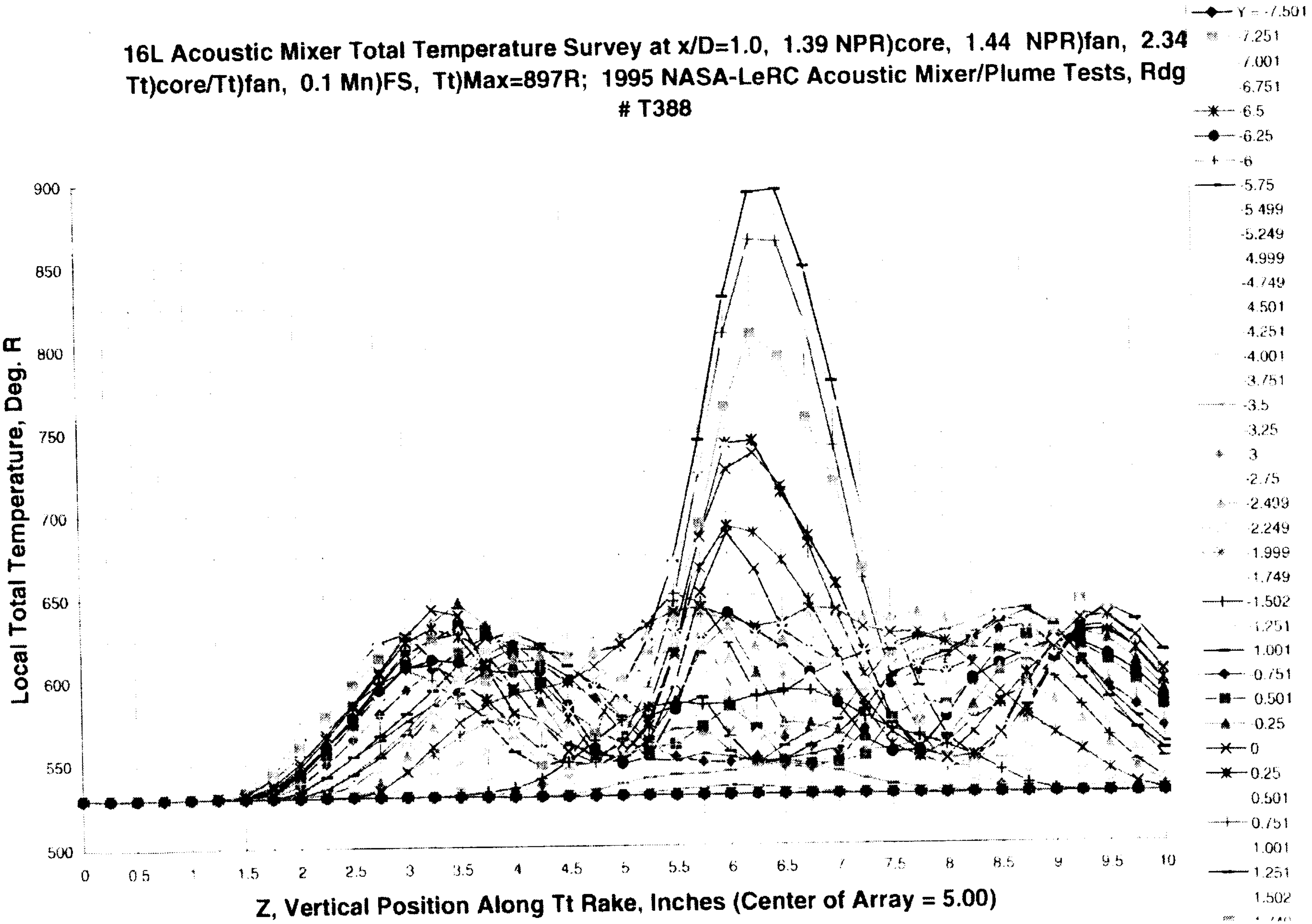


FIGURE 43(b)

16L Acoustic Mixer Total Temperature Survey at x/D=1.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)Max=897R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests, Rdg # T388



D. Baker, 9/4/97,FILE:ZT388.xls

Figure 44(a). 16L Acoustic Mixer (16UH) Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 754R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T389

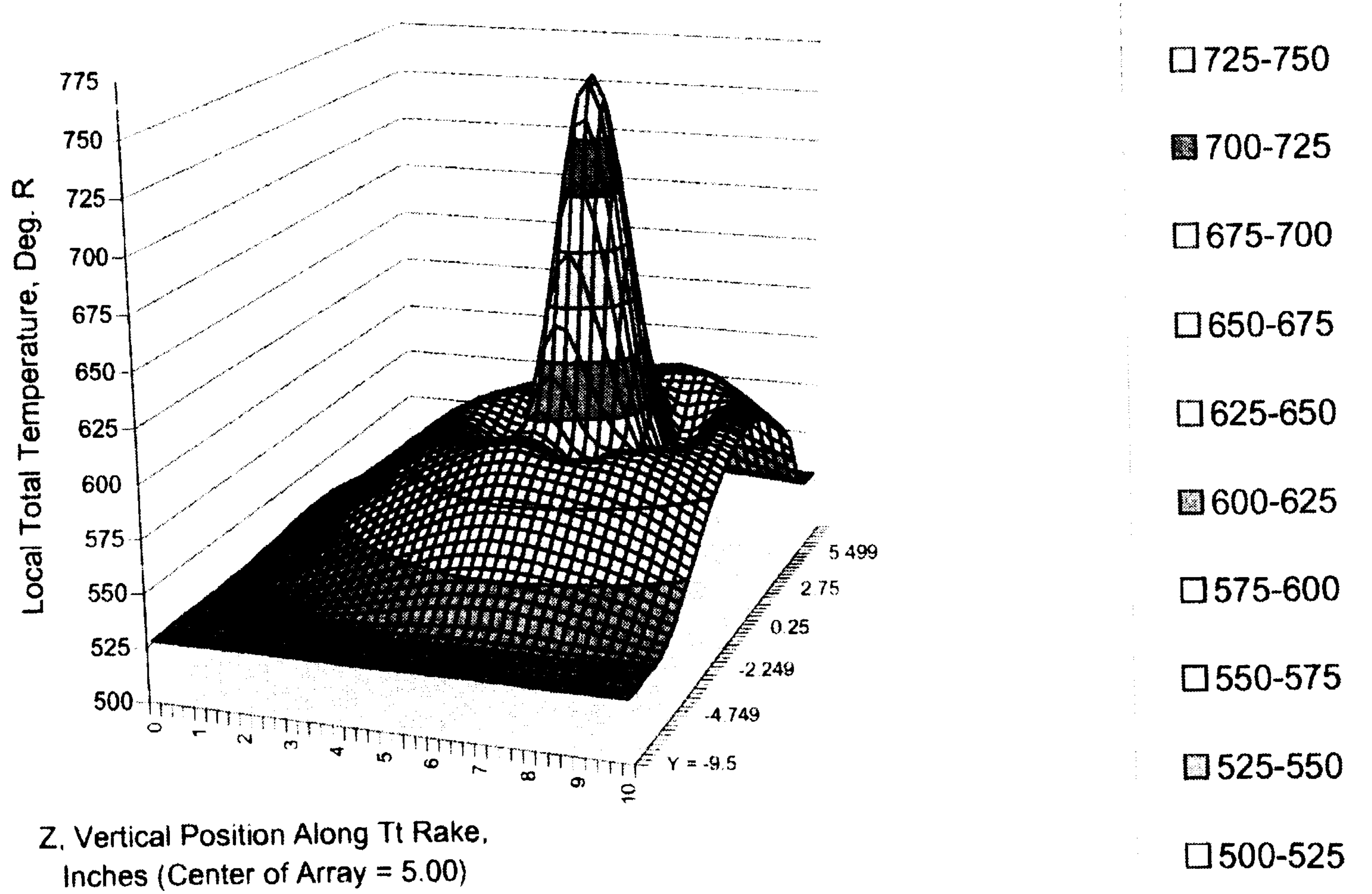
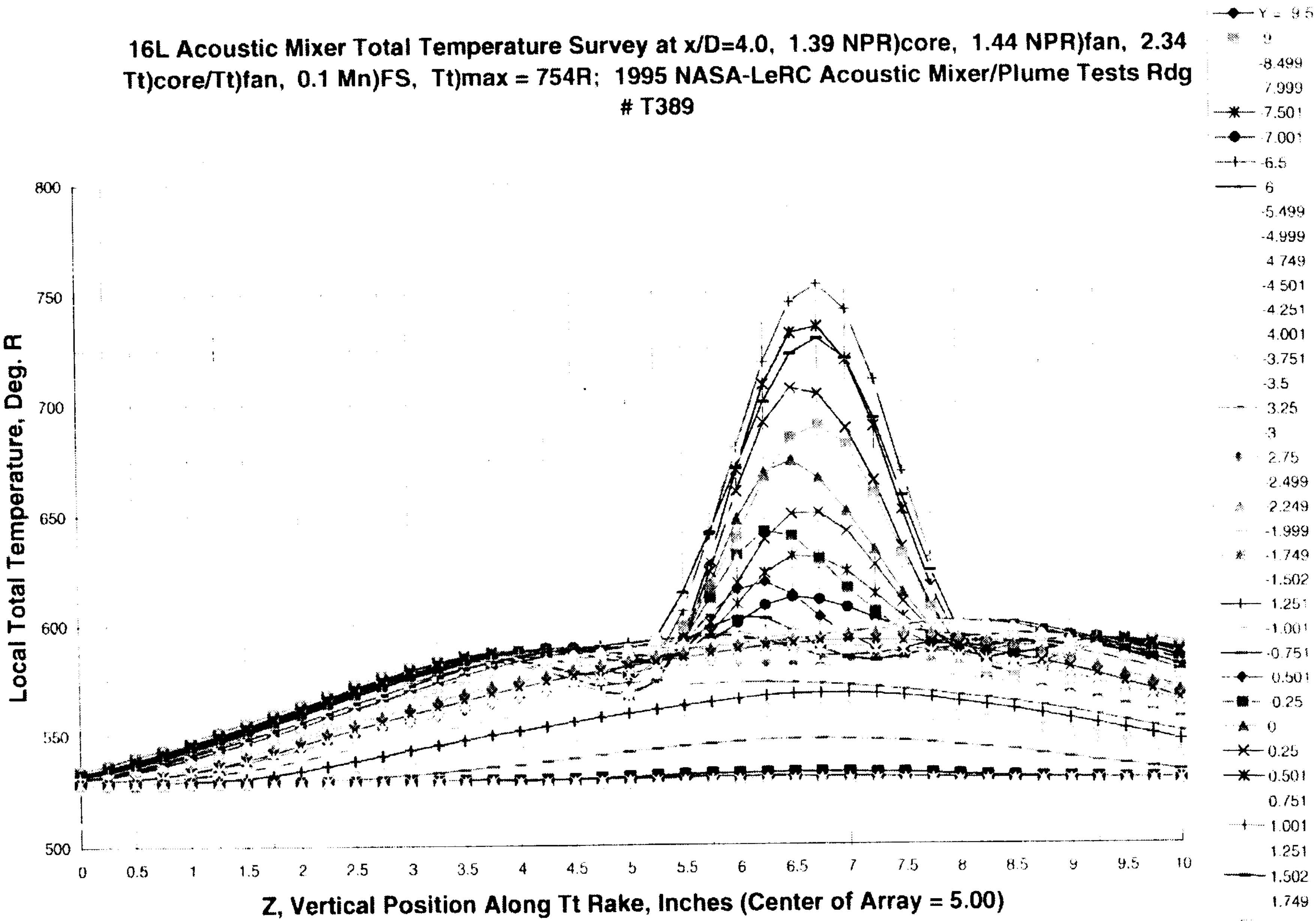


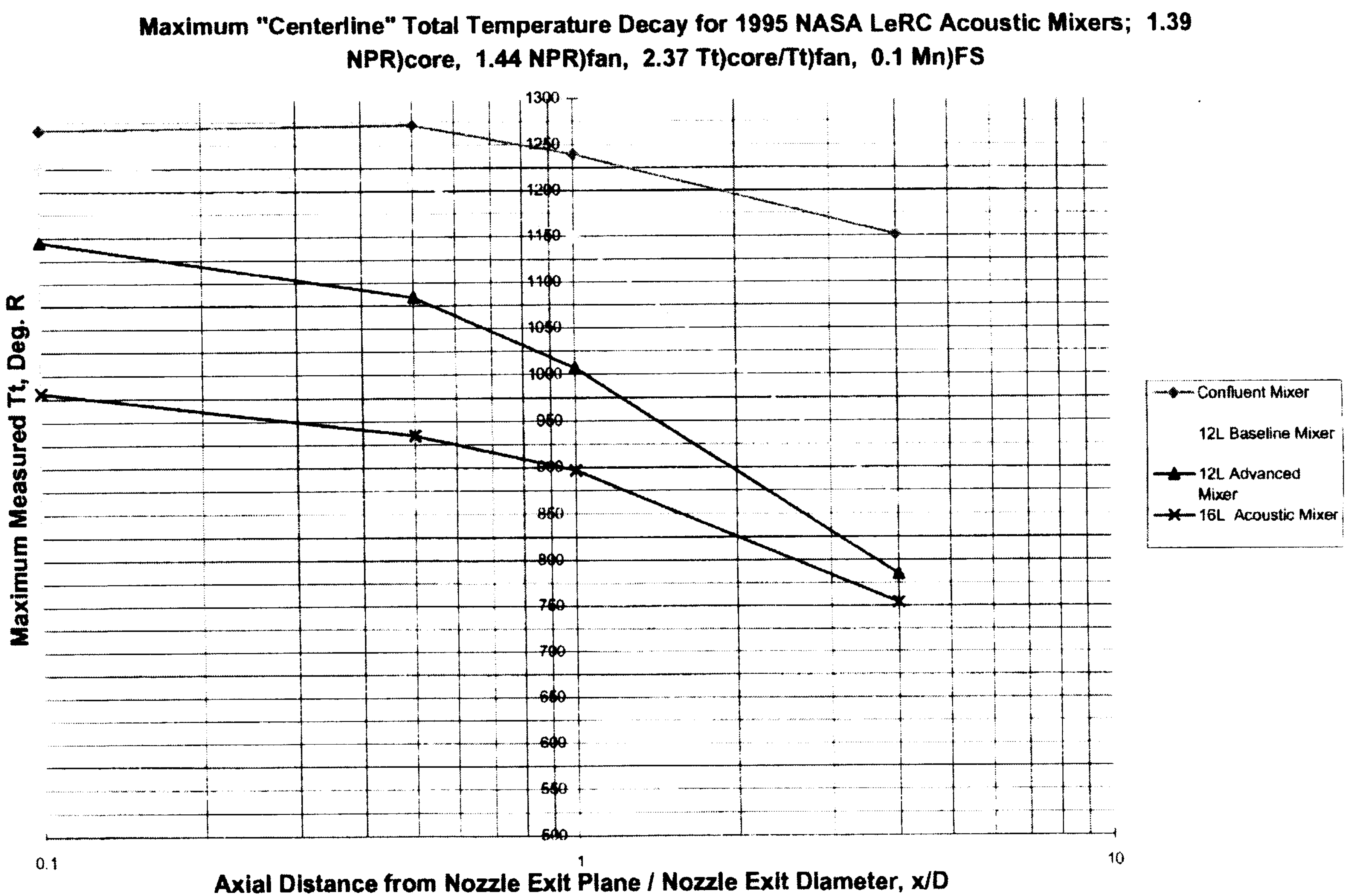
FIGURE 44 (b)

16L Acoustic Mixer Total Temperature Survey at x/D=4.0, 1.39 NPR)core, 1.44 NPR)fan, 2.34 Tt)core/Tt)fan, 0.1 Mn)FS, Tt)max = 754R; 1995 NASA-LeRC Acoustic Mixer/Plume Tests Rdg # T389



D. Baker, 9/3/97, FILE: ZT389.xls

FIGURE 45



D. Baker, 9/11/97: FILE:CLINETT2.xls

Part 3

Aerodynamic and Acoustic Data

Table 3.1 1996 NASA Acoustic Test Matrix

Reading Numbers

100% L Condition*	M(fj)**	CONF#	12CL	12UH	12TH	16UH	20UH	20MH	20DH
A	0	287	415	138	386	101	443	337	233
B	0	288	416	139	387	102	442	338	234
C	0	290	417	140	388	103	441	339	235
D	0	291	418	141	389	104	440	341	236
E	0.2	295	423	145	385	108	436	345	240
F	0.2	294	421	144	384	107	437	344	239
G	0.2	293	422	143	383	106	438	343	238
H	0.2	292	419	142	382	105	439	342	237
I	0.3	296	424	146	375	109	435	346	241
J	0.3	297	425	147	379	111	434	347	242
K	0.3	298	427	148	380	112	433	348	243
L	0.3	299	428	149	381	113	432	349	244

75%L Condition*	M(fj)	CONF	12CL	12UH	12TH	16UH	20UH	20MH	20DH
A	0	-	-	-	-	-	-	-	-
B	0	-	-	-	469	-	468	-	456
C	0	-	-	-	470	-	467	-	455
D	0	-	-	-	471	-	466	-	454
E	0.2	-	-	-	-	-	-	-	-
F	0.2	-	-	-	474	-	465	-	453
G	0.2	-	-	-	473	-	464	-	452
H	0.2	-	-	-	472	-	463	-	450
I	0.3	-	-	-	-	-	-	-	-
J	0.3	-	-	-	475	-	460	-	447
K	0.3	-	-	-	476	-	461	-	448
L	0.3	-	-	-	477	-	462	-	449

50%L Condition*	M(fj)	CONF	12CL	12UH	12TH	16UH	20UH	20MH	20DH
A	0	-	269	213	396	120	318	356	250
B	0	-	270	214	397	121	319	357	251
C	0	-	271	215	398	122	320	358	252
D	0	-	272	216	399	123	321	359	253
E	0.2	-	276	220	403	127	325	363	258
F	0.2	-	275	219	402	126	324	362	257
G	0.2	-	274	218	401	125	323	361	255
H	0.2	-	273	217	400	124	322	360	254
I	0.3	-	277	221	404	128	326	365	259
J	0.3	-	278	222	405	129	327	366	260
K	0.3	-	279	223	406	130	328	367	261
L	0.3	-	280	224	407	131	329	368	262

* See Table 3.2 (next) for explanation of operating conditions A - L ** M(fj) = Free-jet Mach number

\# See Table 3.3 for mixer-code nomenclature

Table 3.2 1996 NASA Acoustic Test Matrix

Nominal Operating Conditions

Condition	NPR(fan)	NPR(core	TTR
A, E, I	1.21	1.17	2.21
B, F, J	1.44	1.39	2.34
C, G, K	1.61	1.54	2.62
D, H, L	1.82	1.74	2.79

Table 3.3 Mixer-Code Nomenclature

Mixer Code	Mixer Description
CONF	Confluent
12CL	12-lobe with cut-outs & low penetration
12UH	12-lobe unscalloped & high penetration
12TH	12-pair tongue mixer
16UH	16-lobe, unscalloped & high penetration
20UH	20-lobe, unscalloped & high penetration
20MH	20-lobe, moderately scalloped & high penetration
20DH	20-lobe, deeply scalloped & high penetration

Nomenclature for Aerodynamic Data

NPRCA	Nozzle pressure ratio of core stream
WPACT	Mass flow rate of core stream (lb/s)
ATTCA	Total temperature of core stream (°R)
APTCA	Total pressure of core stream (psia)
APSCA	Static pressure of core stream (psia)
NPRBA	Nozzle pressure ratio of bypass stream
WPABT	Mass flow rate of bypass stream (lb/s)
ATTBA	Total temperature of bypass stream (°R)
APTBA	Total pressure of bypass stream (psia)
APSBA	Static pressure of bypass stream (psia)
RTTA	Total temperature ratio between core and bypass streams
AVMEX	Free-jet Mach number
PAMB	Ambient pressure (psia)
TA	Ambient temperature (°R)
HUMIN	Ambient relative humidity (%)
WBACT1	Mass flow rate of main bypass stream (lb/s)
WBACT2	Mass flow rate of additional bypass stream (lb/s)
VEXITA	Calculated exit jet velocity (ft/s)

RDG	DATE	TIME	NPRCA	WPACT	ATTCA	APTCA	APSCA	NPRBA	WBACT	ATTBA	APTBA	APSBA	RTTA	AVMEX	PAMB	TA	HUMN	WBACT1	WBACT2	VEXITA
95	18-Nov-96	14:39	1	0.35	505.1	14.38	14.38	1	0.49	510	14.36	14.36	0.99	0.049	14.36	506.6	65.981	0.49	0	38.1
96	18-Nov-96	14:51	1.01	0.35	505.7	14.38	14.38	1.01	0.49	505.7	14.38	14.38	1	0.199	14.38	505.7	69.182	0.49	0	37.9
97	18-Nov-96	14:57	1.01	0.35	505	14.42	14.42	1.01	0.49	505.1	14.42	14.42	1	0.304	14.36	505.2	68.683	0.49	0	37.9
98	18-Nov-96	15:10	1.14	0.4	502	18.33	18.33	1.3	14.56	489.6	18.64	17.78	1.03	0.061	14.36	505	65.421	14.58	0	616.5
99	18-Nov-96	15:16	1.26	0.48	496.9	17.99	17.99	1.51	19.02	490.8	21.63	20.33	1.01	0.061	14.36	505	65.733	15.31	3.72	647.4
100	18-Nov-96	15:23	1.39	5.32	494.5	19.84	19.33	0.94	0.48	492.9	13.4	18.4	1	0.06	14.36	504.7	64.934	0.46	0.02	264.7
101	18-Nov-96	15:49	1.17	1.21	1100.9	16.73	16.65	1.21	10.41	498.4	17.32	16.86	2.22	0.06	14.36	504.4	67.064	10.41	0	562.1
102	18-Nov-96	16:02	1.39	1.98	1165.7	19.88	19.71	1.44	14.89	498.2	20.63	19.82	2.34	0.061	14.36	504.4	65.496	14.89	0	799.1
103	18-Nov-96	16:12	1.54	2.12	1313.7	22	21.79	1.61	17.48	500.2	23.05	22.03	2.83	0.06	14.35	504.1	69.036	15.43	2.06	858.5
104	18-Nov-96	16:18	1.75	2.43	1405.4	24.92	24.87	1.82	19.46	502.8	26.03	24.83	2.79	0.059	14.35	504.1	70.022	15.29	4.17	902.2
105	18-Nov-96	16:28	1.74	2.98	1408.7	24.77	24.52	1.82	19.4	506.1	25.95	24.75	2.78	0.189	14.35	503.8	73.141	15.24	4.16	899.9
106	18-Nov-96	16:32	1.54	2.07	1326.1	21.88	21.88	1.81	17.29	505.9	22.98	21.85	2.62	0.2	14.35	503.7	70.944	15.34	1.95	857.8
107	18-Nov-96	16:43	1.39	1.9	1185.9	19.79	19.62	1.44	14.66	506.6	20.58	19.77	2.34	0.201	14.34	503.4	73.24	12.7	1.86	730.6
108	18-Nov-96	16:50	1.17	1.13	1118.8	16.61	16.64	1.21	10.13	507.2	17.24	16.8	2.21	0.202	14.34	503	74.519	8.14	1.99	474.7
109	18-Nov-96	17:00	1.17	1.09	1118.8	16.6	16.54	1.21	10.01	506.3	17.24	16.8	2.21	0.303	14.34	502.8	76.902	7.97	2.04	463.4
110	18-Nov-96	17:09	1.39	1.9	1178.5	19.74	19.58	1.44	14.48	505.6	20.5	19.71	2.33	0.302	14.34	502.5	74.023	12.46	2.02	718.4
111	18-Nov-96	17:11	1.39	2.04	1178.8	19.74	19.58	1.44	14.49	505.7	20.5	19.71	2.33	0.302	14.35	502.4	74.698	12.47	2.02	733.1
112	18-Nov-96	17:15	1.54	2.19	1322.9	21.89	21.68	1.61	17.12	505.5	22.89	21.89	2.62	0.302	14.35	501.9	75.381	15.38	1.74	870.4
113	18-Nov-96	17:20	1.74	2.42	1412.6	24.72	24.47	1.82	19.32	506.7	25.88	24.67	2.79	0.302	14.35	501.7	75.942	15.27	4.06	906.3
114	18-Nov-96	18:51	1	0.95	508.9	14.34	14.34	1	0.49	508.9	14.34	14.34	1	0.052	14.34	506.6	68.274	0.49	0	37.8
115	18-Nov-96	18:58	1.01	0.35	507.6	14.39	14.39	1.01	0.49	506.7	14.39	14.39	1	0.199	14.34	505.8	69.223	0.49	0	37.7
116	18-Nov-96	19:02	1.02	0.35	506.8	14.46	14.46	1.02	0.49	506.1	14.46	14.47	1	0.301	14.34	505.2	71.006	0.49	0	37.7
117	18-Nov-96	19:14	1.13	11.63	503.4	16.09	16.09	1.3	14.85	497.3	18.53	17.66	1.01	0.085	14.35	504	74.535	14.65	0	1005.7
118	18-Nov-96	19:18	1.24	11.28	497	17.7	17.7	1.51	19.05	495.2	21.54	20.22	1	0.065	14.35	503.6	72.814	15.33	3.72	1007.3
119	18-Nov-96	19:22	1.39	5.29	497.8	19.85	19.33	0.94	0.46	495.1	13.46	13.46	1.01	0.064	14.35	503.4	74.899	0.46	0	265.4
120	18-Nov-96	19:44	1.17	1.26	1096.5	16.7	16.63	1.21	10.33	495.8	17.3	16.85	2.21	0.07	14.35	502.2	74.299	10.33	0	562.2
121	18-Nov-96	19:55	1.39	2	1161.2	19.86	19.69	1.45	14.88	495.5	20.83	19.82	2.34	0.068	14.35	501.4	75.491	14.88	0	798.8
122	18-Nov-96	20:07	1.54	2.18	1303	21.99	21.78	1.61	17.38	497.4	23.01	22	2.62	0.069	14.34	501.2	79.361	15.46	1.92	859
123	18-Nov-96	20:14	1.74	2.52	1397.7	24.73	24.47	1.82	19.49	500.6	25.84	24.74	2.79	0.089	14.34	501	79.948	15.35	4.14	909.9
124	18-Nov-96	20:22	1.73	2.47	1405	24.67	24.41	1.82	19.35	503.3	25.85	24.66	2.79	0.201	14.34	500.5	81.575	15.24	4.11	905.3
125	18-Nov-96	20:29	1.54	2.14	1322	21.83	21.63	1.61	17.25	504.4	22.95	21.94	2.62	0.202	14.34	500.6	81.827	15.33	1.92	862.4
126	18-Nov-96	20:42	1.39	1.96	1181.5	19.69	19.52	1.44	14.47	506	20.46	19.68	2.34	0.204	14.34	500.2	83.005	14.47	0	796.5
127	18-Nov-96	20:52	1.17	1.16	1119.5	16.59	16.52	1.21	10.08	506	17.23	16.79	2.21	0.203	14.33	500	81.101	10.08	0	554.3
128	18-Nov-96	20:59	1.18	1.15	1119	16.66	16.59	1.22	9.95	505.7	17.27	16.84	2.21	0.302	14.33	499.5	80.482	9.95	0	549.3
129	18-Nov-96	21:04	1.39	1.96	1179.2	19.84	19.47	1.44	14.16	505.2	20.32	19.56	2.33	0.301	14.33	499.6	83.206	14.16	0	785.6
130	18-Nov-96	21:10	1.53	2.1	1318.5	21.7	21.5	1.61	17.03	505.4	22.8	21.81	2.61	0.302	14.33	499.2	80.433	15.38	1.65	881.9
131	18-Nov-96	21:16	1.74	2.43	1415.1	24.58	24.32	1.82	19.21	506.8	25.74	24.56	2.79	0.302	14.33	499	80.315	15.26	3.95	908
132	19-Nov-96	14:16	1	0.34	511.8	14.31	14.31	1	0.49	509.3	14.31	14.31	1	0.048	14.31	504.1	55.15	0.49	0	38
133	19-Nov-96	14:40	1.01	0.35	508	14.33	14.33	1.01	0.49	505.8	14.33	14.33	1	0.199	14.3	503.3	55.092	0.49	0	37.8
134	19-Nov-96	14:59	1.01	0.35	506.2	14.36	14.36	1.01	0.49	506.2	14.36	14.37	1	0.301	14.3	500.5	58.468	0.49	0	37.7
135	19-Nov-96	15:13	1.11	11.28	500.6	15.81	15.81	1.3	14.16	491.1	18.48	17.66	1.02	0.058	14.31	500.8	58.179	14.16	0	975.6
136	19-Nov-96	15:22	1.21	11.29	493.5	17.29	17.29	1.51	19	492.3	21.57	20.31	1	0.062	14.31	500.7	57.778	15.31	3.69	1003.4
137	19-Nov-96	15:30	1.39	7.09	493.1	19.87	18.91	0.93	0.48	493.1	13.25	13.26	1	0.06	14.31	500.6	58.911	0.46	0.04	342.7
138	19-Nov-96	16:27	1.17	1.97	1097.2	16.62	16.47	1.2	9.28	497.8	17.15	16.79	2.2	0.066	14.32	500.1	58.97	9.28	0	589.4
139	19-Nov-96	16:37	1.39	2.81	1165.2	19.8	19.46	1.45	13.7	497.9	20.59	19.92	2.34	0.067	14.32	500.1	60.622	13.7	0	842.8
140	19-Nov-96	16:49	1.54	3.07	1309.2	21.87	21.46	1.61	15.98	499.5	22.69	22.06	2.62	0.068	14.32	499.8	61.977	15.41	0.57	845.3
141	19-Nov-96	16:56	1.74	3.5	1394.9	24.72	24.23	1.82	18.61	501	25.93	24.93	2.78	0.068	14.32	499.6	61.955	15.28	3.33	1004.8
142	19-Nov-96	17:11	1.74	3.51	1403	24.67	24.17	1.82	18.87	503.8	25.85	24.85	2.78	0.203	14.32	499	63.861	15.25	3.41	1009.7
143	19-Nov-96	17:20	1.54	3.16	1322.6	21.88	21.47	1.61	16.17	505.1	22.87	22.04	2.62	0.203	14.32	498.6	64.666	15.31	0.85	960.1

144	19-Nov-96	17:29	1.39	2.72	1179.9	19.72	19.38	1.44	13.59	505.4	20.44	19.79	2.33	0.199	14.32	498.6	85.985	13.59	0	833.9
145	19-Nov-96	17:35	1.17	1.73	1120.7	16.81	16.46	1.2	9.19	506	17.1	16.75	2.21	0.2	14.32	498.3	55.207	9.19	0	574.1
146	19-Nov-96	17:56	1.18	1.71	1118.6	16.85	16.5	1.21	9.15	504.3	17.14	15.8	2.22	0.303	14.32	497.2	60.316	9.15	0	569.1
147	19-Nov-96	18:09	1.39	2.7	1178.3	19.62	19.29	1.44	13.35	503.2	20.5	19.67	2.34	0.303	14.32	496.7	67.848	13.35	0	821.3
148	19-Nov-96	18:21	1.54	2.94	1321.6	21.77	21.37	1.61	16.1	503.8	22.8	21.98	2.62	0.304	14.32	498.4	70.067	15.4	0.7	940.7
149	19-Nov-96	18:32	1.74	3.42	1413.2	24.66	24.17	1.83	18.86	505.6	25.62	24.83	2.8	0.304	14.32	498.3	69.916	15.23	3.43	1005.6
150	19-Nov-96	20:14	1.01	0.36	505.3	14.32	14.32	1.01	0.49	505.3	14.32	14.32	1	0.083	14.32	502.8	55.532	0.49	0	37.7

RDG	DATE	TIME	NPRCA	WPACT	ATTCA	APTCA	APSCA	NPRBA	WBACT	ATTBA	APTBA	APSBA	RTTA	AVMEX	PAMB	TA	HUMIN	WBACT1	WBACT2	VEXITA
151	19-Nov-96	20:22	1.01	0.35	504.9	14.36	14.36	1.01	0.49	504.4	14.36	14.36	1	0.202	14.31	502.2	58.681	0.49	0	37.7
152	19-Nov-96	20:24	1.02	0.35	504	14.43	14.43	1.02	0.49	504.4	14.43	14.43	1	0.304	14.31	501.9	60.416	0.49	0	37.3
153	19-Nov-96	20:34	1.1	0.4	502.9	15.63	15.63	1.3	15.05	496.6	18.42	17.61	1.01	0.069	14.31	499.7	60.657	15.05	0	644.4
154	19-Nov-96	20:39	1.16	0.43	500.8	16.55	16.55	1.45	18.05	494.8	20.63	19.48	1.01	0.07	14.32	499.1	62.645	15.38	3.87	654.8
155	19-Nov-96	20:46	1.39	7.1	495.3	19.82	18.87	0.95	0.62	496.6	13.45	13.45	1	0.071	14.32	498.9	63.608	0.46	0.06	344.9
156	19-Nov-96	21:08	1.17	1.91	1091.1	18.69	18.51	1.21	9.73	495.7	17.21	18.85	2.2	0.073	14.32	498.1	67.036	9.73	0	599.2
157	19-Nov-96	21:22	1.39	2.89	1159.9	19.73	19.35	1.44	14.03	496.3	20.42	19.79	2.34	0.074	14.31	497.7	69.356	14.03	0	849.5
158	19-Nov-96	21:36	1.54	3.13	1318.1	21.89	21.44	1.61	16.76	500.7	22.87	22.06	2.63	0.075	14.31	498.7	70.414	15.41	1.35	955.5
159	19-Nov-96	21:44	1.74	3.54	1403.9	24.75	24.2	1.82	19.36	503.2	25.86	24.89	2.79	0.075	14.31	496	71.219	15.2	4.17	1011.2
160	19-Nov-96	21:51	1.74	3.53	1410.6	24.64	24.09	1.81	19.31	505.2	25.71	24.75	2.79	0.2	14.31	495.7	70.291	15.15	4.15	1012.7
161	19-Nov-96	21:57	1.54	3.11	1327.7	21.83	21.39	1.61	16.94	506.4	22.78	21.98	2.62	0.202	14.31	495.7	70.254	15.31	1.63	958.5
162	19-Nov-96	22:05	1.39	2.85	1182.5	19.67	19.3	1.43	14.13	506.5	20.34	19.72	2.33	0.202	14.31	496	68.905	14.13	0	864.9
163	19-Nov-96	22:15	1.17	1.85	1119.7	16.62	16.45	1.21	9.62	506.9	17.1	16.76	2.21	0.202	14.31	496	63.19	9.62	0	602.3
164	19-Nov-96	22:24	1.17	1.72	1115.3	16.53	16.38	1.21	9.47	506.3	17.06	16.74	2.2	0.301	14.31	496.1	64.031	9.47	0	584.4
165	19-Nov-96	22:31	1.39	2.77	1187.7	19.63	19.28	1.44	14.19	504.8	20.39	19.76	2.35	0.3	14.31	495.9	63.266	14.19	0	859.5
166	19-Nov-96	22:37	1.54	3.08	1319.4	21.74	21.3	1.6	16.84	504.9	22.69	21.9	2.61	0.3	14.31	495.8	63.745	15.37	1.48	954.3
167	19-Nov-96	22:41	1.75	3.55	1407	24.67	24.12	1.82	19.35	504.7	25.7	24.75	2.79	0.299	14.31	495.7	60.759	15.19	4.17	1014.5
168	20-Nov-96	13:57	1.01	0.35	513.6	14.33	14.33	1.01	0.51	510	14.33	14.33	1.01	0.065	14.33	501.8	45.01	0.49	0.02	38.3
169	20-Nov-96	14:10	1.11	0.39	500	15.85	15.86	1.3	16.09	489.7	18.49	17.68	1.02	0.07	14.33	499.9	41.751	15.48	0.62	650.3
170	20-Nov-96	14:14	1.16	0.41	499	16.51	16.51	1.4	19.05	490.4	19.92	18.89	1.02	0.071	14.33	499.2	42.755	15.47	3.59	651.4
171	20-Nov-96	14:20	1.39	7.43	492.3	19.77	18.71	0.92	0.55	493.8	13.07	13.08	1	0.071	14.33	499.2	44.484	0.45	0.09	356.3
172	20-Nov-96	14:30	1.01	0.36	493.2	14.36	14.36	1.01	0.58	493.7	14.35	14.35	1	0.201	14.33	499.3	45.43	0.5	0.08	37.5
173	20-Nov-96	14:34	1.02	0.36	494.3	14.39	14.39	1.02	0.58	494.3	14.39	14.39	1	0.303	14.33	498.6	45.656	0.5	0.09	37.6
174	20-Nov-96	15:08	1.17	1.62	1088.3	18.53	18.4	1.21	10.22	493.9	17.1	16.74	2.2	0.299	14.33	496.1	47.317	10.22	0	589.1
175	20-Nov-96	15:17	1.39	2.85	1149.5	19.85	19.34	1.44	15.14	493.8	20.4	19.74	2.33	0.299	14.33	496.1	46.222	15.14	0	859.3
176	20-Nov-96	15:25	1.55	2.98	1305.3	21.95	21.55	1.62	18.57	495.6	22.87	22.02	2.63	0.299	14.33	496.5	44.421	15.49	3.08	934.2
177	20-Nov-96	17:25	1.01	0.42	506.3	14.35	14.36	1.01	0.5	504.3	14.36	14.36	1	0.199	14.33	505.1	43.375	0.5	0	41.7
178	20-Nov-96	17:34	1.01	0.56	504.7	14.39	14.39	1.01	0.79	502.9	14.39	14.39	1	0.296	14.33	503.3	48.706	0.79	0	61.8
179	20-Nov-96	17:36	1.02	0.59	504.5	14.39	14.39	1.02	0.83	503	14.39	14.39	1	0.298	14.33	502.6	48.699	0.83	0	65.4
180	20-Nov-96	17:39	1.01	0.64	504.2	14.34	14.34	1.01	0.9	503	14.33	14.34	1	0.073	14.34	501.5	48.723	0.9	0	70.3
181	20-Nov-96	17:45	1.12	0.41	501.1	15.88	15.88	1.3	14.22	493.1	18.54	17.72	1.02	0.077	14.34	501.2	49.583	14.22	0	609.4
182	20-Nov-96	17:49	1.23	0.45	498.3	17.46	17.45	1.53	19.02	491.1	21.75	20.47	1.01	0.076	14.34	500.5	48.963	15.51	3.51	654.9
183	20-Nov-96	17:53	1.4	7.48	492.3	19.89	18.82	0.91	0.55	492.6	13.02	13.02	1	0.075	14.34	500	49.875	0.45	0.1	357.9
184	20-Nov-96	18:02	1.17	1.79	1093.9	16.71	16.55	1.21	9.31	494.4	17.24	16.86	2.21	0.076	14.34	499.1	51.022	9.31	0	570.8
185	20-Nov-96	18:09	1.39	2.68	1151	19.77	19.45	1.45	13.69	493	20.59	19.9	2.33	0.077	14.34	498.8	51.63	13.89	0	814.1
186	20-Nov-96	18:20	1.54	2.97	1291.4	21.91	21.51	1.61	15.95	493.2	22.87	22.01	2.62	0.081	14.34	498.1	52.095	15.47	0.49	926.1
187	20-Nov-96	18:31	1.74	3.29	1391.2	24.81	24.33	1.82	18.24	498.1	25.87	24.86	2.79	0.081	14.34	497.6	54.902	15.26	2.98	978.6
188	20-Nov-96	18:43	1.74	3.23	1403.4	24.73	24.26	1.82	18.16	503.9	25.85	24.83	2.78	0.196	14.34	497.1	55.864	15.19	2.97	980
189	20-Nov-96	18:51	1.54	2.88	1322.3	21.8	21.41	1.61	15.72	505	22.81	21.95	2.62	0.197	14.34	496.9	57.09	15.27	0.45	931.7
190	20-Nov-96	20:07	1.17	1.66	1121	16.57	16.43	1.21	9.04	505.8	17.15	16.78	2.22	0.198	14.34	495.6	59.994	9.04	0	560.8
191	20-Nov-96	20:19	1.39	2.66	1186.2	19.74	19.42	1.45	13.32	505.5	20.5	19.82	2.35	0.199	14.34	495.6	59.105	13.32	0	819.5
192	20-Nov-96	20:31	1.17	1.55	1118	16.54	16.42	1.22	9.09	505.8	17.19	16.82	2.21	0.302	14.34	495.3	60.898	9.09	0	552.4
193	20-Nov-96	20:35	1.17	1.56	1114.9	16.55	16.43	1.22	9.12	505.7	17.21	16.83	2.2	0.302	14.34	494.9	61.449	9.12	0	554.2
194	20-Nov-96	20:42	1.39	2.63	1185.6	19.6	19.29	1.44	12.98	505.7	20.29	19.64	2.34	0.302	14.34	494.2	59.64	12.98	0	805.4
195	20-Nov-96	20:50	1.54	2.88	1330.5	21.82	21.44	1.62	15.68	506.4	22.84	21.99	2.63	0.302	14.34	493.9	60.509	15.28	0.4	835.4
196	20-Nov-96	21:10	1.74	3.35	1424.6	24.62	24.16	1.83	18.08	509.1	25.8	24.78	2.8	0.302	14.34	493.1	60.826	15.17	2.91	1001.7
197	21-Nov-96	10:52	1	10.11	520.9	14.31	14.31	1	14.25	515.9	14.31	14.31	1.01	0.037	14.31	508.6	59.097	14.15	0.1	978.8
198	21-Nov-96	11:14	1	10.39	517.9	14.32	14.32	1	14.65	514.8	14.31	14.32	1.01	0.049	14.32	506	58.706	14.65	0	998.5
199	21-Nov-96	11:17	1	10.38	517.7	14.31	14.31	1	14.63	515	14.31	14.32	1.01	0.048	14.32	505.8	58.156	14.63	0	997.6

200	21-Nov-96	11:17	1	10.38	517.6	14.32	14.32	1	14.63	514.9	14.31	14.32	1.01	0.051	14.32	505.7	57.919	14.63	0	997.5
201	21-Nov-96	11:19	1	10.39	517	14.31	14.31	1	14.64	515	14.31	14.32	1	0.05	14.32	505.4	57.216	14.64	0	997.7
202	21-Nov-96	11:19	1	10.39	517	14.31	14.31	1	14.65	514.9	14.31	14.31	1	0.048	14.32	505.6	57.669	14.65	0	997.8
203	21-Nov-96	11:22	1	10.4	516.3	14.31	14.31	1	14.66	514.3	14.31	14.32	1	0.051	14.31	505.4	58.894	14.66	0	997.5
204	21-Nov-96	11:24	1	10.39	516.3	14.31	14.32	1	14.65	514.4	14.31	14.32	1	0.051	14.32	505.1	59.844	14.65	0	996.9
205	21-Nov-96	11:26	1	10.41	515.9	14.31	14.31	1	14.67	514	14.31	14.31	1	0.051	14.31	505	59.25	14.67	0	997.5
206	21-Nov-96	11:28	1	10.41	516	14.31	14.31	1	14.68	513.8	14.31	14.31	1	0.051	14.31	505.3	59.022	14.68	0	997.8
207	21-Nov-96	16:34	1	0.34	522.1	14.32	14.32	1	0.46	523.7	14.32	14.32	1	0.012	14.32	512.4	46.859	0.46	0	38.7
208	21-Nov-96	16:48	1.1	0.38	505.4	15.71	15.71	1.3	14.53	493.9	18.64	17.79	1.02	0.015	14.32	507.9	50.497	14.53	0	821.3
209	21-Nov-96	17:06	1.08	0.37	502.2	15.19	15.18	1.2	11.88	496.4	17.21	16.6	1.01	0.034	14.33	504.3	55.592	11.88	0	524.1
210	21-Nov-96	17:21	1.1	0.38	502.8	15.71	15.71	1.3	14.85	499	18.64	17.79	1.01	0.044	14.33	502.4	55.43	14.85	0	831.2
211	21-Nov-96	17:40	1.18	0.42	501.3	17.07	17.07	1.52	19.04	487.5	21.71	20.42	1.03	0.05	14.33	501.6	57.481	15.36	3.69	644.2
212	21-Nov-96	17:47	1.39	7.12	496.8	19.9	18.94	0.94	0.46	494.1	13.39	13.39	1.01	0.051	14.34	501	57.566	0.46	0	345.7
213	21-Nov-96	18:18	1.17	1.84	1110.8	16.7	16.53	1.21	9.31	502.2	17.32	16.95	2.21	0.05	14.34	500.4	58.261	9.31	0	584.3
214	21-Nov-96	18:29	1.39	2.88	1176.1	19.82	19.45	1.44	13.16	502.2	20.56	19.92	2.34	0.051	14.34	500	58.773	13.16	0	827.6
215	21-Nov-96	18:48	1.54	3.13	1322.5	22.07	21.62	1.62	15.41	503.9	23.12	22.29	2.62	0.053	14.35	499	60.019	15.41	0	957.4
216	21-Nov-96	18:59	1.74	3.48	1414	24.85	24.32	1.83	17.99	504.8	26.1	25.11	2.8	0.055	14.35	498.5	60.862	15.28	2.71	1010.5
217	21-Nov-96	19:11	1.74	3.49	1413.2	24.79	24.28	1.82	17.86	505.4	25.99	25.01	2.8	0.202	14.35	498	62.18	15.24	2.52	1010.2
218	21-Nov-96	19:21	1.54	3.13	1326.8	22.02	21.56	1.61	15.37	505.7	22.98	22.17	2.62	0.203	14.35	497.4	61.634	15.37	0	959.2
219	21-Nov-96	19:29	1.39	2.86	1183.3	19.86	19.49	1.45	13.12	505.3	20.61	19.98	2.34	0.204	14.35	497.3	63.077	13.12	0	829
220	21-Nov-96	19:35	1.17	1.84	1116	16.7	16.53	1.21	8.94	506	17.23	16.88	2.21	0.204	14.35	497.2	63.66	8.94	0	572.7
221	21-Nov-96	19:45	1.17	1.79	1114.7	16.66	16.51	1.21	8.63	505.2	17.15	16.83	2.21	0.302	14.35	497.2	64.122	8.63	0	555.4
222	21-Nov-96	19:55	1.39	2.77	1183.1	19.7	19.35	1.44	12.97	504	20.49	19.85	2.35	0.302	14.35	497.3	65.252	12.97	0	815.3
223	21-Nov-96	20:09	1.54	3.06	1318.7	21.89	21.46	1.62	15.44	503.4	22.95	22.14	2.62	0.303	14.35	496.9	64.177	15.44	0	950.8
224	21-Nov-96	20:19	1.74	3.47	1408.1	24.72	24.19	1.82	17.73	504.1	25.88	24.92	2.79	0.302	14.35	496.8	63.442	15.32	2.41	1008.1
225	21-Nov-96	20:35	1.02	0.36	520.8	14.47	14.47	1.02	0.5	509	14.47	14.47	1.02	0.303	14.35	496.8	62.211	0.5	0	39.7
226	21-Nov-96	20:40	1.01	0.35	522.2	14.4	14.4	1.01	0.5	509.8	14.39	14.4	1.02	0.2	14.35	496.8	62.278	0.5	0	39.1
227	22-Nov-96	13:50	1	0.35	505.1	14.45	14.45	1	0.52	504.4	14.45	14.45	1	0.053	14.45	502.2	58.262	0.5	0.02	37.9
228	22-Nov-96	14:00	1.01	0.35	503.8	14.47	14.47	1.01	0.5	502	14.47	14.47	1	0.201	14.45	500.8	58.903	0.5	0	37.8
229	22-Nov-96	14:04	1.01	0.35	502.6	14.51	14.51	1.01	0.51	501.6	14.51	14.51	1	0.301	14.45	500.3	60.656	0.5	0.01	37.8
230	22-Nov-96	14:22	1.1	0.39	500.1	15.77	15.77	1.3	14.23	489	18.72	17.82	1.02	0.053	14.46	500	60.022	14.23	0	600.3
231	22-Nov-96	14:27	1.2	0.42	497.4	17.23	17.23	1.53	19	491	22.05	20.79	1.01	0.05	14.45	499.2	59.356	15.44	3.56	646.7
232	22-Nov-96	14:41	1.39	6.65	493	19.99	19.15	0.93	16.05	493.1	13.31	13.31	1	0.052	14.46	499.4	59.114	16.02	0.03	879.4
233	22-Nov-96	15:26	1.17	1.61	1105.7	16.87	16.75	1.21	9.71	500.9	17.48	17.08	2.21	0.015	14.45	499.1	58.388	9.71	0	572.6
234	22-Nov-96	15:40	1.39	2.56	1174.6	20.12	19.83	1.44	13.75	502.5	20.75	20.06	2.34	0.017	14.45	499	59.369	13.75	0	815
235	22-Nov-96	16:07	1.54	2.72	1317.9	22.22	21.88	1.61	16.23	504.8	23.23	22.34	2.61	0.015	14.46	498.6	58.038	15.39	0.84	913.7
236	22-Nov-96	16:23	1.74	3.07	1417.6	25.21	24.8	1.82	18.57	506.2	26.31	25.25	2.8	0.014	14.46	497.9	59.802	15.28	3.29	968.3
237	22-Nov-96	16:32	1.74	3.02	1408.5	25.04	24.64	1.82	18.61	506.2	26.25	25.19	2.78	0.206	14.46	497.1	61.235	15.3	3.31	960.2
238	22-Nov-96	16:35	1.54	2.73	1325.5	22.26	21.92	1.61	16.11	506.2	23.21	22.33	2.62	0.207	14.46	496.9	62.121	15.4	0.71	917.2
239	22-Nov-96	16:50	1.39	2.51	1183.8	20.08	19.8	1.44	13.7	505.1	20.77	20.07	2.34	0.207	14.47	496.4	62.354	13.7	0	812
240	22-Nov-96	17:02	1.17	1.65	1115.8	16.94	16.8	1.21	9.34	504.9	17.41	17.04	2.21	0.206	14.46	496.5	63.268	9.34	0	565.7
241	22-Nov-96	17:06	1.17	1.53	1118.6	16.85	16.74	1.21	9.41	504.4	17.45	17.07	2.21	0.301	14.46	496.2	63.241	9.41	0	556.7
242	22-Nov-96	17:13	1.39	2.44	1174.7	19.97	19.71	1.44	13.71	503.2	20.75	20.05	2.33	0.301	14.47	496.1	66.23	13.71	0	802.8
243	22-Nov-96	17:23	1.54	2.85	1317	22.05	21.73	1.61	16.19	502.7	23.15	22.27	2.62	0.301	14.47	495.7	65.319	15.46	0.74	905.7
244	22-Nov-96	17:29	1.74	3.04	1408.4	25.02	24.62	1.82	18.6	503	26.19	25.13	2.8	0.301	14.46	495.9	67.492	15.35	3.25	959
245	22-Nov-96	18:25	1	0.35	511.8	14.47	14.47	1	0.5	507.4	14.47	14.47	1.01	0.016	14.47	500.4	53.775	0.5	0	38.2
246	22-Nov-96	18:34	1.01	0.35	512.9	14.52	14.53	1.01	0.6	504.9	14.52	14.53	1.02	0.2	14.47	499.4	59.276	0.5	0	38.2
247	22-Nov-96	18:38	1.02	0.35	511.1	14.6	14.6	1.02	0.6	504.5	14.6	14.6	1.01	0.304	14.47	499	62.233	0.5	0	38.1
248	22-Nov-96	18:55	1.18	0.41	499.4	17	16.99	1.53	19.01	494.4	22.07	20.8	1.01	0.017	14.46	497.3	64.159	15.38	3.62	648.2
249	22-Nov-96	19:05	1.39	6.78	494.4	20.11	19.26	0.92	0.45	494.9	13.28	13.29	1	0.016	14.46	498.9	64.688	0.45	0	326.8

250	22-Nov-96	19:23	1.18	1.75	1095.2	17	16.85	1.21	9.74	495.8	17.56	17.16	2.21	0.017	14.47	495.7	69.628	9.74	0	520.3
251	22-Nov-96	19:34	1.39	2.65	1159.4	20.14	19.84	1.44	13.76	496.1	20.79	20.1	2.34	0.017	14.47	495.7	64.177	13.76	0	812.5
252	22-Nov-96	19:43	1.54	2.83	1300.7	22.33	21.98	1.82	18.44	498.4	23.41	22.52	2.61	0.018	14.47	495.5	64.788	15.46	0.98	914.1
253	22-Nov-96	20:10	1.74	3.16	1410.4	25.17	24.74	1.82	18.44	506.5	26.3	25.25	2.78	0.017	14.47	494.5	71.058	15.19	3.25	970.6
254	22-Nov-96	20:18	1.74	3.14	1419.9	25.16	24.73	1.82	18.44	507.4	26.31	25.27	2.8	0.2	14.47	494.3	72.55	15.19	3.25	972
255	22-Nov-96	20:25	1.54	2.72	1332	22.18	21.84	1.61	16.05	508.1	23.25	22.38	2.62	0.202	14.47	493.6	73.693	15.28	0.77	916.6
256	22-Nov-96	20:32	1.39	2.55	1188.4	20.08	19.77	1.44	13.43	508.1	20.71	20.04	2.34	0.203	14.47	493.4	73.273	13.43	0	811.2
257	22-Nov-96	20:37	1.39	2.55	1187.4	20.08	19.78	1.44	13.48	508	20.75	20.07	2.34	0.202	14.47	493.2	74.835	13.48	0	812
258	22-Nov-96	20:43	1.17	1.62	1121.2	16.89	16.76	1.21	9.36	508.2	17.47	17.09	2.21	0.203	14.46	492.8	75.302	9.36	0	567
259	22-Nov-96	20:50	1.17	1.55	1122.1	16.83	16.71	1.21	9.12	507.7	17.4	17.04	2.21	0.302	14.46	492.7	76.402	9.12	0	550.5
260	22-Nov-96	20:55	1.39	2.5	1188	19.98	19.7	1.44	13.33	506.9	20.66	20	2.34	0.301	14.46	492.6	75.4	13.33	0	801.7
261	22-Nov-96	21:01	1.54	2.7	1330.2	22.08	21.74	1.61	15.9	507.3	23.14	22.28	2.62	0.301	14.46	491.7	71.533	15.29	0.81	913
262	22-Nov-96	21:07	1.74	3.06	1418	24.92	24.5	1.82	18.34	507.8	26.14	25.1	2.79	0.301	14.46	491.7	76.266	15.17	3.17	963.4
263	25-Nov-96	14:06	1	0.35	512.3	14.34	14.35	1	0.5	510.2	14.34	14.35	1	0.003	14.35	506.7	75.1	8.49	0.01	38
264	25-Nov-96	15:38	1.01	0.35	506.1	14.41	14.41	1.01	0.49	504.7	14.41	14.41	1	0.202	14.35	503.8	81.661	0.49	0	37.7
265	25-Nov-96	15:43	1.02	0.35	504.9	14.48	14.48	1.02	0.49	504.4	14.48	14.48	1	0.301	14.35	503.5	83.352	0.49	0	37.7
266	25-Nov-96	15:52	1.09	10.81	500.8	16.65	15.85	1.3	14.66	493.6	18.7	17.83	1.01	0.001	14.35	503	82.89	14.66	0	976.6
267	25-Nov-96	15:59	1.18	11.1	493.2	16.93	16.93	1.51	19.01	489.5	21.71	20.4	1.01	0.001	14.35	503	82.597	15.3	3.72	992.5
268	25-Nov-96	16:03	1.39	7.45	491.6	19.96	18.88	0.9	13.47	490.3	12.86	12.86	1	0.003	14.35	502.8	82.265	13.44	0.03	827.6
269	25-Nov-96	16:17	1.17	1.9	1092.9	16.77	16.6	1.21	9.48	493.6	17.35	16.97	2.21	0.001	14.34	502.8	84.341	9.48	0	586.1
270	25-Nov-96	16:21	1.39	2.86	1154	19.98	19.61	1.44	13.64	493.1	20.7	20.02	2.34	0.002	14.34	502.5	84.886	13.64	0	828.2
271	25-Nov-96	16:31	1.54	3.55	1294.4	22.15	21.7	1.61	15.88	493.8	23.09	22.24	2.62	0.002	14.34	502.4	87.877	15.57	0.31	983.4
272	25-Nov-96	16:44	1.74	3.47	1383.1	24.98	24.45	1.82	18.24	495.3	26.06	25.06	2.79	0.001	14.33	502.3	88.301	15.29	2.95	992.4
273	25-Nov-96	16:50	1.74	3.44	1385.8	24.9	24.38	1.82	18.21	496.4	26.01	25.01	2.79	0.201	14.33	502	87.977	15.26	2.94	990.8
274	25-Nov-96	16:57	1.54	3.08	1300.8	22.05	21.62	1.61	15.81	496.8	23.03	22.18	2.62	0.202	14.33	501.7	88.929	15.37	0.44	939.8
275	25-Nov-96	17:11	1.39	2.79	1163.7	19.85	19.5	1.44	13.47	497.3	20.81	19.95	2.34	0.202	14.33	501.5	90.234	13.47	0	823.6
276	25-Nov-96	17:19	1.17	1.96	1098.7	16.7	16.54	1.21	9.39	497.6	17.33	16.95	2.21	0.202	14.32	501.3	90.144	9.39	0	592.6
277	25-Nov-96	17:28	1.17	1.74	1101.3	16.72	16.56	1.22	9.15	497.4	17.3	16.94	2.21	0.297	14.32	500.9	89.729	9.15	0	564.9
278	25-Nov-96	17:36	1.39	2.78	1163.3	19.79	19.44	1.44	13.22	496.6	20.48	19.84	2.34	0.297	14.32	500.7	91.158	13.22	0	813.9
279	25-Nov-96	17:42	1.54	3.07	1301.9	21.95	21.51	1.61	15.4	496.7	22.85	22.03	2.62	0.297	14.32	500.5	91.707	15.4	0	941
280	25-Nov-96	17:48	1.74	3.39	1389.8	24.76	24.25	1.82	18.2	497.2	25.95	24.94	2.8	0.296	14.32	500.5	91.414	15.32	2.88	990.1
281	25-Nov-96	19:14	1	0.35	508.7	14.3	14.3	1	0.49	506.6	14.3	14.3	1	0.005	14.3	508.2	78.801	0.49	0	37.8
282	25-Nov-96	19:23	1	0.35	509.5	14.32	14.32	1	0.49	505.5	14.32	14.32	1.01	0.204	14.29	506.5	79.434	0.49	0	37.9
283	25-Nov-96	19:27	1.01	0.35	508.8	14.35	14.35	1.01	0.49	505.2	14.36	14.36	1.01	0.301	14.29	505.4	83.904	0.49	0	37.8
284	25-Nov-96	19:36	1.15	12.78	498.2	16.4	16.4	1.3	14.9	491.1	18.53	17.63	1.01	0.003	14.29	504.6	84.798	14.9	0	1035.8
285	25-Nov-96	19:42	1.27	11.48	491.3	18.08	18.08	1.49	19.81	490.5	21.3	19.98	1	0.001	14.29	504	85.155	15.28	3.75	1004.9
286	25-Nov-96	19:47	1.39	9.04	491.1	19.88	18.26	0.89	15.89	485.3	12.66	12.68	1.01	0.008	14.29	503.7	85.838	15.89	0	948.8
287	25-Nov-96	20:58	1.17	1.53	1090.1	16.64	16.52	1.21	10.13	492.8	17.27	16.83	2.21	0.001	14.28	501.9	84.568	10.13	0	578.3
288	25-Nov-96	21:02	1.39	2.67	1152.3	19.89	19.58	1.44	14.21	492.1	20.59	19.85	2.34	0.003	14.28	501.5	86.007	14.21	0	832
289	25-Nov-96	21:09	1.54	3.1	1288.3	22.01	21.63	1.61	16.77	492.3	22.97	22.84	2.62	0.002	14.28	501.5	85.402	15.47	1.31	939.8
290	25-Nov-96	21:12	1.54	2.9	1291.2	22	21.65	1.61	16.76	492.6	22.97	22.84	2.62	0.003	14.28	501.6	86.001	15.45	1.31	921.5
291	25-Nov-96	21:21	1.74	3.51	1381.6	24.82	24.38	1.82	18.99	495.2	25.97	24.86	2.79	0.001	14.28	501.2	87.618	15.3	3.89	999
292	25-Nov-96	21:26	1.74	3.42	1386.3	24.82	24.39	1.82	18.97	498.4	25.97	24.86	2.79	0.198	14.28	501	88.572	15.27	3.69	992.2
293	25-Nov-96	21:30	1.54	2.85	1302.4	21.95	21.58	1.61	16.62	496.8	22.92	21.99	2.62	0.198	14.28	500.9	87.948	15.38	1.24	922
294	25-Nov-96	21:37	1.39	2.63	1164.6	19.78	19.47	1.43	13.89	497.5	20.44	19.72	2.34	0.198	14.28	500.6	88.153	13.89	0	826.5
295	25-Nov-96	21:48	1.17	1.55	1099.1	16.68	16.54	1.21	9.84	498.2	17.23	16.82	2.21	0.197	14.28	500.5	88.709	9.84	0	575.2
296	25-Nov-96	21:53	1.17	1.57	1101.8	16.61	16.51	1.21	9.82	498	17.23	16.82	2.21	0.3	14.28	500.3	89.367	9.82	0	576.9
297	25-Nov-96	22:01	1.39	2.55	1166.7	19.77	19.48	1.44	14	497.4	20.51	19.79	2.35	0.3	14.29	499.9	89.788	14	0	823.6
298	25-Nov-96	22:10	1.54	2.79	1298.9	21.85	21.49	1.61	16.81	496.7	22.87	21.95	2.62	0.3	14.29	499.9	89.761	15.38	1.22	915.7
299	25-Nov-96	22:14	1.74	3.11	1385.7	24.65	24.23	1.82	18.98	496.9	25.88	24.77	2.79	0.299	14.29	489.8	90.369	15.27	3.7	961.7

300	26-Nov-96	15:20	1	0.45	500.9	14.45	14.45	1	0.84	498.3	14.45	14.45	1.81	0.001	14.45	497.1	54.384	0.63	0.01	48.1
301	26-Nov-96	15:35	1.11	0.4	498.6	16.05	16.05	1.3	14.48	484.9	18.75	17.92	1.03	0.004	14.45	486.7	51.9	14.48	0	504.9
302	26-Nov-96	15:42	1.21	0.43	493	17.55	17.55	1.51	19	486.9	21.83	20.57	1.01	0.001	14.45	496	50.859	15.42	3.58	841.4
303	26-Nov-96	15:50	1.39	7.14	487.6	20.14	19.18	0.93	16.18	487.2	13.43	13.44	1	0.003	14.45	495.9	51.466	16.16	0.02	889.4
304	26-Nov-96	16:22	1.16	1.88	1085.3	16.85	16.69	1.21	9.66	498	17.49	17.1	2.21	0.005	14.46	495.4	50.983	9.86	0	582.3
305	26-Nov-96	16:34	1.39	2.86	1144.5	20.06	19.71	1.44	13.68	489.5	20.82	20.15	2.34	0.006	14.46	495.2	51.034	13.68	0	817.7
306	26-Nov-96	16:44	1.54	3.12	1284.5	22.32	21.89	1.61	16.07	490.4	23.33	22.48	2.62	0.004	14.46	494.8	50.083	15.6	0.48	933
307	26-Nov-96	17:00	1.74	3.47	1376.2	25.16	24.64	1.82	18.33	494.3	26.28	25.28	2.78	0.005	14.47	494	48.428	15.43	2.91	986.5
308	26-Nov-96	18:19	1	8.05	494	14.5	14.5	1	13.88	493.5	14.5	14.51	1	0.198	14.48	494	44.909	13.88	0	858.8
309	26-Nov-96	18:45	1.17	1.83	1086.6	16.94	16.76	1.21	9.47	491	17.51	17.13	2.21	0.199	14.48	492	46.275	9.47	0	571.1
310	26-Nov-96	18:53	1.39	2.86	1145.8	20.09	19.74	1.44	13.49	489.5	20.77	20.12	2.34	0.197	14.48	491.7	46.197	13.49	0	811.1
311	26-Nov-96	19:00	1.54	3.07	1283	22.2	21.78	1.61	15.92	488.7	23.21	22.37	2.63	0.198	14.49	491.4	46.569	15.65	0.27	927
312	26-Nov-96	19:06	1.74	3.48	1384.4	25.19	24.68	1.82	18.48	489.3	26.33	25.33	2.79	0.198	14.49	491.9	47.922	15.53	2.94	980.6
313	26-Nov-96	19:12	1.74	3.63	1371.6	25.06	24.55	1.82	18.28	491.2	26.14	25.16	2.79	0.3	14.48	491.3	49.122	15.52	2.76	998.8
314	26-Nov-96	19:19	1.55	3.07	1289.8	22.24	21.82	1.61	15.75	493	23.19	22.37	2.62	0.301	14.49	491.4	49.5	15.58	0.17	930.9
315	26-Nov-96	19:28	1.39	2.86	1157.6	19.94	19.6	1.44	13.31	494.9	20.67	20.03	2.34	0.302	14.49	491.2	50.609	13.31	0	813.4
316	26-Nov-96	19:43	1.17	1.7	1099.4	16.9	16.75	1.22	9.4	495.7	17.51	17.14	2.22	0.301	14.49	491.1	49.438	9.4	0	562.5
317	26-Nov-96	19:49	1.01	0.38	588.5	14.55	14.56	1.01	0.53	518.9	14.55	14.55	1.13	0.303	14.49	491.3	48.878	0.53	0	49.9
318	26-Nov-96	20:53	1.17	1.88	1091.7	16.91	16.74	1.21	9.51	493.3	17.57	17.19	2.21	0.003	14.5	496.1	45.806	9.51	0	579.1
319	26-Nov-96	21:03	1.39	3.02	1147.3	20.2	19.81	1.44	13.38	491.3	20.89	20.25	2.34	0.002	14.5	495.2	46.797	13.98	0	822
320	26-Nov-96	21:08	1.54	3.18	1285.4	22.28	21.83	1.61	15.88	490	23.42	22.59	2.62	0.005	14.5	494.8	47.619	15.65	0.23	937.4
321	26-Nov-96	21:15	1.74	3.6	1364.5	25.18	24.63	1.82	18.34	489.3	26.44	25.46	2.79	0.003	14.5	494.7	50.759	15.54	2.8	991.2
322	26-Nov-96	21:23	1.73	3.6	1368.7	25.09	24.53	1.82	18.1	491	26.26	25.29	2.79	0.206	14.5	493.6	51.688	15.49	2.81	993.1
323	26-Nov-96	21:32	1.54	3.13	1293.6	22.22	21.78	1.61	15.59	493.6	23.35	22.53	2.62	0.215	14.51	492.4	53.962	15.59	0	937.2
324	26-Nov-96	21:49	1.39	2.93	1161.3	20.09	19.7	1.44	13.11	496.9	20.77	20.14	2.34	0.206	14.51	491.8	53.466	13.11	0	814.4
325	26-Nov-96	22:01	1.17	1.83	1099.2	16.88	16.71	1.21	8.75	499.1	17.46	17.1	2.2	0.204	14.51	491.4	53.441	4.86	3.89	398.2
326	26-Nov-96	22:09	1.17	1.83	1099.9	16.92	16.75	1.21	8.56	498.7	17.42	17.09	2.21	0.301	14.51	491.3	55.35	4.85	3.7	396
327	26-Nov-96	22:16	1.38	2.81	1161.6	19.95	19.6	1.44	13.17	495.5	20.78	20.14	2.34	0.301	14.51	491.2	55.206	13.17	0	804.8
328	26-Nov-96	22:23	1.54	3.14	1299.3	22.2	21.75	1.61	15.59	495.5	23.24	22.44	2.62	0.301	14.51	491.4	53.4	15.59	0	940.8
329	26-Nov-96	22:32	1.74	3.62	1384	25.15	24.59	1.82	17.84	495.7	26.22	25.27	2.79	0.301	14.51	491.3	52.819	15.46	2.38	1002.8
330	26-Nov-96	22:32	1.74	3.75	1384.1	25.15	24.59	1.82	17.84	495.9	26.22	25.27	2.79	0.3	14.51	491.3	52.856	15.46	2.38	1015.2
331	2-Dec-96	15:56	1	0.35	501	14.32	14.32	1	0.5	502.4	14.32	14.32	1	0.001	14.32	502.7	59.246	0.49	0.01	37.7
332	2-Dec-96	16:05	1	0.35	501.4	14.35	14.35	1	0.5	501.1	14.35	14.35	1	0.199	14.32	502.6	59.717	0.49	0.01	37.8
333	2-Dec-96	16:10	1.01	0.35	501	14.38	14.38	1.01	0.49	501.1	14.38	14.38	1	0.3	14.32	502.2	61.398	0.49	0	37.7
334	2-Dec-96	16:25	1.1	0.39	499.5	15.81	15.81	1.3	14.32	487.9	18.58	17.77	1.02	0.002	14.33	501.8	60.607	14.32	0	807
335	2-Dec-96	16:29	1.21	0.44	497.3	17.39	17.39	1.53	19.04	488.7	21.88	20.61	1.02	0.002	14.33	501.5	61.194	15.4	3.63	648.4
336	2-Dec-96	16:40	1.39	7.03	490	19.93	19	0.92	0.49	490.5	13.24	13.25	1	0.002	14.33	501.1	60.719	0.46	0.03	337.7
337	2-Dec-96	17:26	1.17	1.76	1093.9	16.8	16.64	1.21	9.51	494.1	17.35	16.97	2.21	0.003	14.34	499.9	62.752	9.51	0	575.5
338	2-Dec-96	17:40	1.39	2.66	1180.9	19.92	19.6	1.44	13.67	495.8	20.69	20	2.34	0.002	14.34	499.8	66.025	13.67	0	815.9
339	2-Dec-96	17:50	1.54	2.89	1303.1	22.1	21.71	1.61	16.05	497.7	23.15	22.29	2.62	0.003	14.34	499.4	65.468	15.52	0.53	927.5
340	2-Dec-96	17:58	1.74	3.24	1394.4	24.86	24.5	1.82	18.36	500.1	26.15	25.13	2.79	0.003	14.34	499.3	67.563	15.31	3.06	977.5
341	2-Dec-96	18:01	1.74	3.32	1398.2	25	24.54	1.82	18.33	501	26.16	25.14	2.79	0.002	14.34	499.2	69.522	15.35	2.98	988.8
342	2-Dec-96	18:09	1.74	3.23	1404.7	24.93	24.48	1.82	18.22	503.4	26.08	25.06	2.79	0.199	14.34	499.3	71.385	15.25	2.97	981.7
343	2-Dec-96	18:18	1.65	2.9	1324.5	22.13	21.74	1.81	15.73	504.8	23.08	22.23	2.62	0.201	14.34	498.7	73.349	15.41	0.31	937.6
344	2-Dec-96	18:32	1.39	2.67	1182.6	19.98	19.63	1.44	13.33	505.5	20.62	19.95	2.34	0.201	14.34	498.4	75.951	13.33	0	819.9
345	2-Dec-96	18:43	1.17	1.64	1121.8	16.75	16.61	1.21	9.45	505.7	17.38	17	2.22	0.2	14.34	497.6	71.967	9.45	0	574.8
346	2-Dec-96	18:52	1.18	1.9	1119.7	16.75	16.61	1.22	9.21	505.2	17.33	16.96	2.22	0.3	14.34	497.7	72.773	9.21	0	588.8
347	2-Dec-96	18:59	1.39	2.56	1182.8	19.82	19.52	1.45	13.4	504.3	20.62	19.95	2.35	0.3	14.35	496.6	72.326	13.4	0	811.6
348	2-Dec-96	19:08	1.54	2.82	1324.7	21.96	21.58	1.62	15.74	504.5	23.03	22.18	2.63	0.299	14.34	495.8	73.283	15.42	0.32	930.9
349	2-Dec-96	19:16	1.74	3.19	1407.1	24.79	24.33	1.82	18.15	505.3	25.98	24.97	2.76	0.3	14.34	495.4	75.351	15.28	2.87	981.1

350	2-Dec-96	20:19	1	0.35	514.6	14.35	14.35	1	0.49	508.9	14.35	14.35	1.01	0.005	14.35	499.9	68.602	0.49	0	38.[illegible]
351	2-Dec-96	20:27	1.01	0.35	513.3	14.41	14.41	1.01	0.49	505.8	14.41	14.41	1.01	0.283	14.35	499.1	74.557	0.49	0	38.3
352	2-Dec-96	20:33	1.02	0.35	509.8	14.48	14.48	1.02	0.5	504.5	14.48	14.48	1.01	0.3	14.35	497.7	80.598	0.5	0	38.4
353	2-Dec-96	20:46	1.09	0.38	504.1	15.67	15.67	1.3	14.47	497.9	18.86	17.83	1.01	0.003	14.35	496.6	78.219	14.47	0	622.6
354	2-Dec-96	20:51	1.19	0.42	501.2	17.06	17.06	1.52	19.04	495.1	21.85	20.58	1.01	0.003	14.35	496.5	78.902	15.48	3.56	657.1
355	2-Dec-96	21:01	1.39	7.05	494.4	19.96	19.02	0.92	0.45	494.6	13.27	13.27	1	0.004	14.35	496.5	75.426	0.45	0	340.9
356	2-Dec-96	21:22	1.17	1.8	1094.6	16.77	16.61	1.21	9.48	496	17.38	17	2.21	0.003	14.35	496.3	76.032	9.48	0	678.7
357	2-Dec-96	21:35	1.39	2.78	1161.1	19.98	19.62	1.44	13.45	495.9	20.7	20.03	2.34	0.004	14.35	498.3	74.331	13.45	0	819.4
358	2-Dec-96	21:47	1.54	3.17	1307.5	22.14	21.73	1.62	15.77	498.6	23.19	22.35	2.62	0.003	14.35	495.5	78.265	15.5	0.27	954.8
359	2-Dec-96	21:58	1.74	3.79	1402.6	25.01	24.5	1.82	18.11	501.7	26.17	25.17	2.8	0.003	14.35	495.3	79.653	15.33	2.78	1035.1
360	2-Dec-96	22:03	1.74	3.79	1405.2	24.93	24.42	1.82	17.96	503.7	26.04	25.06	2.79	0.2	14.35	495.3	79.923	15.27	2.69	1036
361	2-Dec-96	22:12	1.54	3.29	1326.7	22.08	21.66	1.61	15.4	505.5	23.05	22.23	2.62	0.2	14.35	495.1	81.641	15.4	0	974.7
362	2-Dec-96	22:23	1.39	2.77	1187	19.93	19.58	1.44	13.15	506.5	20.63	19.98	2.34	0.2	14.35	495	81.209	13.15	0	824.9
363	2-Dec-96	22:37	1.17	1.87	1115.6	16.88	16.54	1.21	9.37	506.4	17.39	17.01	2.2	0.2	14.35	494.8	81.517	9.37	0	574.4
364	2-Dec-96	22:46	1.17	1.69	1119.3	16.73	16.6	1.22	9.26	505.9	17.42	17.05	2.21	0.301	14.35	494.3	82.603	9.26	0	571.5
365	2-Dec-96	22:48	1.17	1.71	1117.8	16.73	16.59	1.22	9.24	505.8	17.41	17.04	2.21	0.301	14.35	493.9	82.709	9.24	0	572.6
366	2-Dec-96	22:51	1.38	2.72	1181.8	19.88	19.54	1.44	12.97	505.3	20.54	19.91	2.34	0.3	14.34	493.8	83.869	12.97	0	812.4
367	2-Dec-96	22:55	1.55	3.12	1325.9	22.08	21.66	1.61	15.4	505.5	22.99	22.18	2.62	0.3	14.34	493.8	82.231	15.4	0	958.8
368	2-Dec-96	22:56	1.75	3.38	1409.4	24.89	24.39	1.82	17.88	505.8	26.01	25.03	2.79	0.3	14.34	493.7	82.111	15.17	2.71	997.6
369	3-Dec-96	13:58	1	0.34	513.6	14.27	14.27	1	0.49	515.6	14.27	14.27	1	0.004	14.27	510.9	62.748	0.49	0	38.2
370	3-Dec-96	14:10	1.07	0.38	506.4	15.29	15.29	1.3	13.66	493.1	18.53	17.78	1.03	0.004	14.27	509.2	62.943	13.66	0	590.4
371	3-Dec-96	14:14	1.18	0.43	502	16.82	16.82	1.58	19.05	491.4	22.49	21.24	1.02	0.004	14.27	508.5	64.18	15.33	3.72	651.1
372	3-Dec-96	14:19	1.39	7.47	493.9	18.84	18.8	0.91	0.47	492.9	12.98	12.98	1	0.004	14.27	508.1	62.804	0.45	0.03	360.2
373	3-Dec-96	14:30	1	0.35	492.9	14.3	14.3	1	0.5	498.1	14.3	14.3	0.99	0.2	14.27	506.7	65.375	0.5	0	37.6
374	3-Dec-96	14:36	1.01	0.35	495.7	14.33	14.33	1.01	0.49	501.9	14.33	14.33	0.99	0.3	14.27	505.3	67.952	0.49	0	37.8
375	3-Dec-96	15:25	1.17	1.86	1101.8	16.67	16.52	1.22	9.12	499.2	17.34	16.98	2.21	0.3	14.28	502.2	73.225	9.12	0	576.4
376	3-Dec-96	15:27	1.17	1.95	1101.9	16.58	16.42	1.21	8.6	499.5	17.11	16.79	2.21	0.3	14.28	502.2	73.329	8.6	0	565.6
377	3-Dec-96	15:27	1.17	1.87	1101.8	16.59	16.42	1.21	8.67	499.5	17.12	16.8	2.21	0.3	14.28	502.1	73.859	8.87	0	560.8
378	3-Dec-96	15:28	1.18	1.78	1102.5	16.7	16.54	1.22	9.15	499.2	17.38	17.02	2.21	0.3	14.28	502.1	73.549	9.15	0	570.1
379	3-Dec-96	15:44	1.4	2.68	1171.1	19.81	19.44	1.44	12.81	500.3	20.48	19.87	2.34	0.3	14.28	501.8	74.613	12.81	0	814.9
380	3-Dec-96	16:03	1.55	3.11	1323.8	21.94	21.49	1.61	15.15	503.5	22.89	22.11	2.63	0.3	14.28	501.6	76.223	15.15	0	950.7
381	3-Dec-96	16:10	1.74	3.52	1408	24.74	24.2	1.82	17.51	504.7	25.86	24.91	2.79	0.3	14.29	501.5	76.321	15.32	2.19	1016.7
382	3-Dec-96	16:17	1.74	3.51	1411	24.81	24.27	1.82	17.6	506.2	25.98	25.02	2.79	0.202	14.29	501.4	78.254	15.22	2.37	1015.7
383	3-Dec-96	16:21	1.54	3.08	1328.3	21.96	21.52	1.62	15.32	507.1	23.03	22.22	2.62	0.203	14.29	501.3	75.993	15.32	0	958.4
384	3-Dec-96	16:37	1.39	2.89	1180.9	19.86	19.49	1.44	12.9	508.1	20.59	19.96	2.34	0.2	14.29	501.2	80.992	12.9	0	830.9
385	3-Dec-96	16:46	1.17	1.88	1125.6	16.72	16.56	1.22	9.13	507.9	17.38	17.02	2.22	0.2	14.3	501.1	81.448	9.13	0	587.4
386	3-Dec-96	16:58	1.17	2.09	1119.8	16.71	16.53	1.21	9.1	507.2	17.33	16.98	2.21	0.003	14.3	501.3	80.461	9.1	0	605.2
387	3-Dec-96	17:05	1.39	2.87	1185.5	19.88	19.5	1.44	13.05	508.4	20.66	20.02	2.34	0.003	14.3	501.3	81.807	13.05	0	831.9
388	3-Dec-96	17:18	1.54	3.14	1328.9	22.01	21.56	1.61	15.21	507.1	22.98	22.18	2.62	0.002	14.3	501.1	83.89	15.21	0	960.2
389	3-Dec-96	17:23	1.74	3.52	1417.7	24.88	24.33	1.82	17.58	508.5	26.04	25.08	2.79	0.003	14.3	501.1	82.959	15.11	2.48	1016.8
390	3-Dec-96	18:31	1	0.34	527	14.31	14.31	1	0.49	517.4	14.3	14.31	1.02	0.003	14.31	507.1	71.961	0.49	0	38.7
391	3-Dec-96	18:45	1.01	0.35	522.4	14.36	14.37	1.01	0.49	512	14.38	14.37	1.02	0.203	14.31	505.4	80.247	0.49	0	38.6
392	3-Dec-96	18:54	1.01	0.35	518.8	14.43	14.44	1.02	0.49	510.3	14.43	14.44	1.01	0.299	14.31	503.9	79.71	0.49	0	38.5
393	3-Dec-96	19:07	1.06	0.38	506.5	15.1	15.1	1.3	13.9	499.2	18.61	17.83	1.01	0.004	14.31	502.6	80.596	13.9	0	504.3
394	3-Dec-96	19:12	1.14	0.42	504	16.32	16.32	1.56	19.02	498.2	22.31	21.06	1.02	0.004	14.32	502.3	80.791	15.42	3.6	657.9
395	3-Dec-96	19:24	1.39	7.38	495.3	19.91	18.87	0.91	0.46	495.8	13.02	13.03	1	0.003	14.32	501.6	77.66	0.45	0	356.3
396	3-Dec-96	19:39	1.17	1.96	1102.7	16.77	16.58	1.22	9.22	497	17.41	17.05	2.22	0.003	14.32	500.7	78.318	9.22	0	586.7
397	3-Dec-96	19:47	1.39	3.05	1162.8	19.98	19.58	1.45	13.15	495.6	20.74	20.11	2.35	0.002	14.32	500.5	79.516	13.15	0	833.9
398	3-Dec-96	20:03	1.54	3.28	1309.7	22.09	21.61	1.61	15.43	498.9	23.12	22.33	2.62	0.001	14.32	500.1	81.16	16.43	0	860.8
399	3-Dec-96	20:21	1.76	3.7	1400.1	25	24.42	1.81	17.39	501.7	25.99	25.07	2.79	0.002	14.33	499.8	79.14	15.3	2.09	1026.5

400	3-Dec-96	20:32	1.74	3.78	1405.8	24.89	24.32	1.82	17.43	503.6	25.89	25.06	2.79	0.2	14.33	499.3	82.738	15.28	2.15	1036.8
401	3-Dec-96	20:48	1.54	3.27	1319.6	22.01	21.55	1.62	15.39	504	23.16	22.36	2.62	0.2	14.33	498.8	82.152	15.39	0	970.8
402	3-Dec-96	21:02	1.4	3.05	1180.3	19.94	19.54	1.44	12.73	504	20.57	19.96	2.34	0.2	14.33	498.5	84.447	12.73	0	832
403	3-Dec-96	21:14	1.17	2.11	1116.9	16.79	16.81	1.21	8.89	503.6	17.34	17	2.22	0.2	14.33	498.5	83.574	8.88	0	594.6
404	3-Dec-96	21:34	1.18	1.9	1111.5	16.75	16.57	1.21	8.62	502.2	17.27	16.95	2.21	0.3	14.33	497.9	86.734	8.62	0	562.7
405	3-Dec-96	21:43	1.39	2.9	1172.8	19.84	19.46	1.44	12.77	500.8	20.57	19.97	2.34	0.3	14.33	497.8	86.727	12.77	0	816.1
406	3-Dec-96	21:57	1.54	3.32	1313.3	21.96	21.5	1.62	15.2	500.5	23.01	22.24	2.62	0.299	14.34	497.4	87.566	15.2	0	963.9
407	3-Dec-96	22:09	1.74	3.62	1399.2	24.78	24.22	1.82	17.43	501.9	25.92	25	2.79	0.299	14.34	497.4	87.934	15.34	2.09	1019.4
408	4-Dec-96	14:04	1	0.35	508.5	14.47	14.48	1	0.49	504.7	14.47	14.48	1	0.004	14.48	502.1	67.354	0.49	0	37.7
409	4-Dec-96	14:06	1	0.35	506.3	14.47	14.48	1	0.49	504.7	14.47	14.48	1	0.002	14.48	502.1	67.481	0.49	0	37.8
410	4-Dec-96	14:21	1	0.35	504.3	14.5	14.5	1	0.5	502	14.5	14.5	1	0.199	14.47	501.3	71.083	0.5	0	37.8
411	4-Dec-96	14:33	1.01	0.35	503	14.54	14.54	1.01	0.5	502.8	14.54	14.54	1	0.3	14.47	500.2	74.281	0.5	0	37.7
412	4-Dec-96	15:05	1.11	0.42	498.5	18.1	18.1	1.3	14.62	489.3	18.81	17.98	1.02	0.003	14.48	500	89.722	14.6	0.03	614
413	4-Dec-96	15:09	1.22	0.47	494.3	17.81	17.81	1.51	19	489	21.82	20.57	1.01	0.003	14.48	499.8	69.311	15.44	3.56	645.1
414	4-Dec-96	15:20	1.4	7.73	491.2	20.21	19.1	0.9	0.45	490.9	13.09	13.11	1	0.002	14.48	499.7	68.634	0.45	0	364.5
415	4-Dec-96	16:03	1.16	1.75	1106.2	16.87	16.72	1.21	9.61	499.7	17.45	17.07	2.21	0.002	14.48	499	70.612	9.57	0.04	578.1
416	4-Dec-96	16:22	1.39	2.78	1177	20.14	19.8	1.44	13.75	504.7	20.84	20.16	2.33	0.003	14.48	498.9	71.853	13.69	0.06	833.4
417	4-Dec-96	16:35	1.54	2.98	1329.5	22.31	21.91	1.61	16.11	507.8	23.39	22.45	2.82	0.002	14.49	498.9	72.816	15.35	0.75	940.5
418	4-Dec-96	16:50	1.75	3.39	1426.7	25.39	24.83	1.82	18.91	511.1	26.36	25.34	2.79	0.002	14.49	498.7	75.338	15.22	3.08	1002.6
419	4-Dec-96	16:57	1.74	3.38	1428.4	25.2	24.71	1.82	18.2	511.5	26.24	25.21	2.79	0.203	14.49	498.4	74.849	15.13	3.07	998.4
420	4-Dec-96	17:06	1.55	2.96	1340.3	22.33	21.93	1.82	16.86	511.2	23.36	22.48	2.62	0.203	14.49	498.1	75.955	15.28	0.77	942.7
421	4-Dec-96	17:18	1.39	2.72	1198.6	20.12	19.79	1.44	13.59	510.6	20.83	20.15	2.34	0.203	14.49	497.3	76.313	13.53	0.06	832.4
422	4-Dec-96	17:23	1.54	2.95	1336.5	22.25	21.85	1.61	15.98	510.6	23.26	22.4	2.62	0.204	14.49	497.1	75.898	15.33	0.64	941.9
423	4-Dec-96	17:29	1.18	1.75	1129.4	16.98	16.82	1.21	9.64	510.2	17.56	17.17	2.21	0.203	14.49	496.7	75.072	9.51	0.04	586.6
424	4-Dec-96	17:45	1.18	1.71	1124.3	16.92	16.78	1.21	9.31	508.5	17.47	17.1	2.21	0.3	14.48	496.4	79.194	9.27	0.03	571.9
425	4-Dec-96	17:52	1.39	2.89	1191.1	20.06	19.73	1.44	13.51	507.9	20.78	20.11	2.36	0.301	14.48	496.1	79.839	13.47	0.03	824
426	4-Dec-96	17:57	1.54	2.95	1332.3	22.21	21.81	1.61	15.92	507.7	23.2	22.34	2.62	0.301	14.49	498.1	79.831	15.39	0.54	939.1
427	4-Dec-96	18:00	1.55	3.03	1334.3	22.28	21.88	1.62	16.03	507.7	23.3	22.43	2.63	0.301	14.49	496	79.995	15.33	0.69	945.8
428	4-Dec-96	18:05	1.74	3.65	1418	25.12	24.83	1.82	18.34	508	26.24	25.21	2.79	0.301	14.49	496.1	80.774	15.26	3.08	1023.3
429	4-Dec-96	19:26	1	0.35	505.8	14.49	14.49	1	0.51	507.2	14.49	14.49	1	0.003	14.49	504.3	60.342	0.5	0.01	37.8
430	4-Dec-96	19:35	1	0.35	504.6	14.51	14.51	1	0.51	504.7	14.51	14.51	1	0.2	14.49	502	71.406	0.49	0.01	37.7
431	4-Dec-96	19:51	1.01	0.35	503.8	14.54	14.55	1.01	0.5	504.3	14.55	14.55	1	0.299	14.48	497.8	80.821	0.6	0	37.8
432	4-Dec-96	20:10	1.74	3.42	1394.7	25.05	24.55	1.82	18.31	498.9	26.26	25.27	2.8	0.3	14.48	496	81.168	15.41	2.9	989.7
433	4-Dec-96	20:16	1.54	3.02	1304.8	22.17	21.75	1.61	15.85	496.9	23.2	22.38	2.63	0.3	14.48	495.8	81.775	15.55	0.3	933.3
434	4-Dec-96	20:25	1.38	2.73	1164	19.89	19.66	1.44	13.51	497	20.79	20.13	2.34	0.3	14.48	495.5	81.006	13.48	0.06	810.4
435	4-Dec-96	20:34	1.18	1.74	1103.8	16.92	16.77	1.22	9.33	498.3	17.49	17.12	2.22	0.3	14.48	495.2	82.256	9.29	0.04	564.2
436	4-Dec-96	20:50	1.17	1.72	1102.3	16.87	16.73	1.21	9.56	499.5	17.51	17.13	2.21	0.2	14.48	495.1	82.057	9.52	0.04	572.4
437	4-Dec-96	20:57	1.39	2.78	1173.9	20.05	19.7	1.44	13.46	500.7	20.79	20.14	2.34	0.2	14.48	495.3	80.964	13.4	0.08	819.2
438	4-Dec-96	21:02	1.54	3.03	1312.4	22.27	21.85	1.62	15.99	501.5	23.37	22.52	2.62	0.199	14.48	495.4	80.692	15.45	0.54	938
439	4-Dec-96	21:07	1.74	3.4	1403	25.1	24.6	1.82	18.28	502.6	26.33	25.93	2.79	0.2	14.48	495.2	80.685	15.34	2.95	992.4
440	4-Dec-96	21:14	1.74	3.43	1400.7	25.19	24.69	1.82	18.3	503.7	26.4	25.39	2.78	0.003	14.48	495.2	80.95	15.39	2.91	997.5
441	4-Dec-96	21:18	1.54	3.04	1320.8	22.31	21.89	1.62	15.96	504.3	23.39	22.54	2.62	0.003	14.48	495.1	81.597	15.45	0.51	943.8
442	4-Dec-96	21:26	1.39	2.77	1179.9	20.86	19.72	1.44	13.53	504.9	20.85	20.18	2.34	0.003	14.48	495.1	79.932	13.48	0.07	826
443	4-Dec-96	21:34	1.17	1.81	1114.2	16.91	16.78	1.22	9.77	504.5	17.61	17.21	2.21	0.003	14.47	495.4	78.867	9.73	0.04	594.1
444	5-Dec-96	13:49	1	11.3	513.7	14.24	14.24	1	15.98	510.1	14.24	14.24	1.01	0.002	14.24	502.5	55.399	15.98	0.01	1057.8
445	5-Dec-96	14:02	1.01	11.29	509.6	14.27	14.27	1.01	15.97	505.5	14.27	14.27	1.01	0.2	14.23	501.8	58.002	15.96	0.02	1050.3
446	5-Dec-96	14:10	1.01	11.33	507	14.31	14.31	1.01	16.02	504.9	14.31	14.31	1	0.299	14.23	500.7	58.598	16.01	0.01	1058.6
447	5-Dec-96	14:36	1.39	2.49	1162.4	19.65	19.38	1.44	13.55	494.3	20.32	19.66	2.33	0.3	14.21	499	80.41	13.49	0.06	798.2
448	5-Dec-96	14:41	1.65	2.98	1295.3	21.82	21.49	1.61	16.07	493.7	22.78	21.92	2.82	0.3	14.21	499	80.001	15.63	0.44	940.8
449	5-Dec-96	14:51	1.74	3.03	1379	24.57	24.17	1.82	18.59	494.5	25.72	24.68	2.79	0.3	14.2	498.7	81.133	15.44	3.15	959.6

450	5-Dec-96	15:03	1.74	3.06	1383.5	24.89	24.28	1.82	18.51	498.9	25.77	24.74	2.79	0.2	14.2	498.8	58.938	15.37	3.15	988.3
451	5-Dec-96	15:13	1.54	2.7	1313.2	21.84	21.5	1.81	16.04	501.5	22.81	21.95	2.82	0.2	14.2	498.8	59.227	15.43	0.61	921.4
452	5-Dec-96	15:18	1.54	2.7	1313	21.84	21.5	1.81	16.04	502	22.82	21.96	2.82	0.2	14.2	498.5	58.888	15.43	0.61	922
453	5-Dec-96	15:24	1.39	2.48	1178.4	19.72	19.44	1.44	13.56	503	20.39	19.71	2.34	0.2	14.19	498.8	58.593	13.52	0.04	815.1
454	5-Dec-96	15:37	1.74	3.03	1409.1	24.71	24.3	1.82	18.5	503.8	25.86	24.81	2.8	0.005	14.19	499	58.889	15.29	3.21	972.8
455	5-Dec-96	15:42	1.54	2.7	1322.4	21.9	21.56	1.61	18.12	504.1	22.91	22.03	2.62	0.005	14.19	499.1	59.153	15.36	0.78	924.2
456	5-Dec-96	15:53	1.39	2.49	1178.5	19.75	19.47	1.44	13.75	503.8	20.48	19.78	2.34	0.006	14.18	499.3	58.582	13.89	0.05	822.2
457	5-Dec-96	16:49	1	0.34	521.2	14.19	14.19	1	0.51	511.9	14.19	14.19	1.02	0.086	14.19	503.8	44.682	0.48	0.02	38.5
458	5-Dec-96	16:55	1.01	0.34	521.9	14.23	14.23	1.01	0.5	510.2	14.23	14.23	1.02	0.281	14.19	503.4	50.615	0.49	0.02	38.5
459	5-Dec-96	17:01	1.01	0.34	518.8	14.27	14.27	1.01	0.5	509.7	14.27	14.27	1.02	0.3	14.19	502.2	54.284	0.49	0.02	38.4
460	5-Dec-96	17:34	1.39	2.71	1168.5	18.57	18.24	1.44	13.21	497.7	20.34	18.7	2.35	0.301	14.17	499.6	63.48	13.15	0.06	815.1
461	5-Dec-96	17:38	1.54	2.97	1303.5	21.66	21.27	1.61	15.59	498.2	22.73	21.92	2.82	0.3	14.17	499.3	65.345	15.55	0.04	946.3
462	5-Dec-96	17:47	1.74	3.36	1393.9	24.49	24	1.82	17.89	499.9	25.68	24.71	2.79	0.3	14.16	499.1	65.891	15.41	2.48	1002.4
463	5-Dec-96	18:00	1.74	3.38	1405.1	24.61	24.1	1.82	17.89	503.7	25.78	24.8	2.79	0.2	14.16	499.2	65.284	15.32	2.57	1008.1
464	5-Dec-96	18:10	1.54	3.04	1326	21.82	21.39	1.61	15.47	505.2	22.76	21.85	2.62	0.2	14.17	499.3	65.657	15.4	0.06	961
465	5-Dec-96	18:19	1.39	2.75	1177.4	19.63	19.28	1.44	13.21	504.9	20.38	19.73	2.33	0.2	14.16	499.2	67.88	13.15	0.06	827.8
466	5-Dec-96	18:39	1.74	3.4	1413.3	24.88	24.17	1.82	17.88	505.9	25.84	24.86	2.79	0.002	14.16	499.3	72.547	15.31	2.58	1014.6
467	5-Dec-96	18:47	1.64	3.22	1328.8	21.81	21.39	1.81	16.49	505.8	22.76	21.95	2.63	0.003	14.16	499.4	73.559	15.42	0.07	980.2
468	5-Dec-96	18:55	1.39	2.77	1185.5	18.69	18.34	1.44	13.28	505.5	20.44	19.78	2.35	0.003	14.16	499.4	74.125	13.22	0.06	834.8
469	5-Dec-96	20:42	1.39	2.88	1165.8	18.66	18.29	1.44	13.08	498.6	20.44	19.81	2.34	0.004	14.16	504.1	78.302	13.04	0.04	827.2
470	5-Dec-96	20:54	1.54	3.14	1303.9	21.83	21.38	1.62	15.43	497	22.87	22.07	2.82	0.004	14.16	502.2	80.932	15.4	0.03	956.3
471	5-Dec-96	21:01	1.74	3.88	1390.8	24.68	24.13	1.82	17.66	497.4	25.82	24.88	2.8	0.005	14.16	501.4	82.163	15.36	2.28	1028.6
472	5-Dec-96	21:13	1.74	3.55	1394.8	24.59	24.04	1.82	17.5	499.7	25.71	24.77	2.79	0.2	14.15	499.8	84.018	15.45	2.05	1022.5
473	5-Dec-96	21:31	1.55	3.18	1315.2	21.82	21.86	1.61	15.15	502.4	22.74	21.96	2.62	0.2	14.16	498.3	86.485	15.11	0.04	958.8
474	5-Dec-96	21:41	1.4	2.91	1177.1	19.71	19.33	1.44	12.89	502.5	20.37	18.75	2.34	0.2	14.15	497.8	87.333	12.82	0.01	828.6
475	5-Dec-96	21:49	1.39	2.85	1182.2	19.59	19.22	1.44	12.58	502.9	20.23	19.63	2.35	0.3	14.15	497.1	89.856	12.58	0	817.4
476	5-Dec-96	21:58	1.64	3.07	1323.8	21.66	21.23	1.62	15.17	504.4	22.73	21.95	2.62	0.3	14.15	496.7	90.223	15.13	0.04	954.8
477	5-Dec-96	22:09	1.74	3.51	1415.5	24.49	23.95	1.82	17.3	508.4	25.81	24.68	2.8	0.3	14.15	498.5	89.497	15.38	1.92	1929

Acoustic Data

[Compiled according to the listing of nozzles and mixers in Table 3.1; e.g., first is for 100%L, CONF at condition A, B, ...,L (ref. Table 3.2), second is for 100%L, 12CL at condition A, B, ..., L etc.]

100%L, CONF

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	287
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acour	Kathy Boyd
lead_engin	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
ambxc	35.02
ambxb	78.39
scale	4
vid	579.43
m01	0.00471
pamb	14.2752
tamb	502.1
rhumid	84.45
winds1	0
nprc	1.165
nprb	1.21
ptc	16.6306
ptb	17.273
wactc	1.533
wactb	10.13
ttc	1091.25
ttb	492.666
ptmix	17.1886
ttmix	571.536
mixpnd	0.494351
grsvtxp	6757.89
badchan	(04,26)
bkgnd	281
escdate	25.Nov.96
esctime	20:50:53
DADSdate	25.Nov.96
DADStime	20:50.53
btchdate	25.Nov.96
btchtime	20:50:53

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date Wed Aug 20 02:09:41 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency (	55	60	65	70	75	80	85	90	95	100	105	110
80	65.4	66.15	66.93	67.75	68.56	69.37	70.13	70.84	71.48	72.02	72.44	72.76
100	65.8	66.64	67.45	68.21	68.93	69.82	70.28	70.91	71.52	72.11	72.88	73.25
130	65.77	66.5	66.96	67.27	67.56	67.89	68.28	68.76	69.34	70.05	70.88	71.84
160	67.18	67.85	68.4	68.91	69.44	70.04	70.7	71.37	72.03	72.63	73.13	73.54
200	67.62	68.43	69.08	69.64	70.17	70.69	71.24	71.83	72.46	73.15	73.9	74.72
250	68.45	69.28	70.04	70.77	71.47	72.14	72.73	73.17	73.52	74.05	75.05	76.45
320	68.77	69.32	69.73	70.12	70.8	71.25	71.96	72.52	72.58	72.75	73.82	74.78
400	67.58	68.8	69.44	70.21	70.99	71.65	72.18	73.02	73.73	74.29	74.89	75.63
500	67.45	68.55	69.5	70.27	70.84	71.23	71.63	72.23	72.85	73.63	74.56	75.35
630	66.55	67.68	68.96	69.61	70.35	70.7	71.23	71.95	72.38	72.77	73.28	73.93
800	66.66	67.92	68.81	69.47	70	70.52	71.11	71.81	72.68	73.56	74.12	74.8
1000	65.73	66.67	67.63	68.24	68.87	69.59	70.33	71.06	71.88	72.8	73.46	73.92
1300	64.55	65.66	66.51	67.23	67.82	68.46	69.06	69.67	70.28	70.89	71.32	71.52
1600	63.78	64.95	65.73	66.31	66.83	67.4	68.1	68.81	69.3	69.79	70.21	70.69
2000	62.99	64.09	64.81	65.44	66.09	66.66	67.2	67.82	68.36	68.78	69.34	70.14
2500	61.84	63.04	63.73	64.31	65.01	65.69	66.39	66.97	67.5	68.19	68.73	69.25
3200	60.88	62.21	63.19	64	64.73	65.49	66.28	66.91	67.44	68.1	68.84	69.1
4000	59.72	61.21	62.39	63.35	64.09	65.02	66.12	66.47	67	67.78	68.29	68.89
5000	58.8	60.54	61.69	62.58	63.51	64.73	65.96	66.67	67.16	67.87	68.57	69.38
6300	58.11	60.6	62.1	63.06	63.92	65.17	66.88	67.82	68.59	69.2	69.45	70.23
8000	57.4	60.67	62.63	63.72	64.67	66.05	67.88	69.15	69.93	70.44	70.83	71.73
10000	54.79	58.31	60.92	62.91	64.51	65.84	66.99	68.17	69.02	69.44	69.82	70.24
OASPL	78.69	79.7	80.51	81.2	81.84	82.48	83.17	83.84	84.44	85.04	85.68	86.41

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency (	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.07	73.48	74.09	74.99	76.3	77.97	79.74	81.31	82.39	82.7	0	117.7
100	73.88	74.63	75.55	76.7	78.16	79.81	81.33	82.35	82.5	81.43	0	118.46
130	72.93	74.13	75.43	76.8	78.2	79.56	80.69	81.39	81.44	80.63	0	117.71
160	73.96	74.47	75.18	76.17	77.51	79.08	80.47	81.25	81.25	80.38	0	117.96
200	75.58	76.42	77.21	77.87	78.36	78.63	78.6	78.19	77.3	75.84	0	117.71
250	77.53	78.61	79.54	79.75	79.79	80.06	80.41	79.8	77.43	74.84	0	119.24
320	76.52	77.73	77.81	78.29	78.87	78.2	77.28	75.84	74.03	72.34	0	117.72
400	76.47	77.31	77.57	77.38	77.31	76.62	75.33	73.52	71.54	69.93	0	117.34
500	76.3	77.46	78.11	78.35	78.27	77.03	74.84	72.78	70.83	69.03	0	117.38
630	74.86	76.09	76.58	76.69	76.18	74.8	73.01	71.06	69.4	68.6	0	116.05
800	75.47	75.66	75.96	75.66	74.67	73.15	71.48	69.86	68.49	66.7	0	115.8
1000	74.26	74.63	74.62	74.18	73.21	71.78	70	67.87	66.07	65.04	0	114.7
1300	71.84	72.24	72.56	72.18	71.32	69.98	68.41	66.8	65	63.49	0	112.84
1600	71.23	71.68	71.86	71.47	70.24	68.69	67.06	65.56	64.08	62.37	0	111.95
2000	70.88	70.87	70.93	70.63	69.53	67.69	65.78	64.17	62.44	61.1	0	111.11
2500	69.55	69.81	70.12	69.65	68.36	66.5	64.47	62.86	61.34	59.7	0	110.18
3200	69.45	69.85	69.96	69.2	67.68	65.73	63.66	61.78	59.87	57.95	0	109.93
4000	68.95	69.02	69.36	68.82	66.84	64.32	62.18	60.47	58.5	55.58	0	109.38
5000	69.19	69.11	69.62	68.92	66.54	63.33	61.08	59.3	57.12	54.66	0	109.41
6300	70.33	70.18	70.22	69.2	66.6	63.18	60.62	58.31	56.13	54.19	0	110.21
8000	71.68	71.44	71.24	70.1	67.49	63.57	60.45	57.76	56.02	54.11	0	111.37
10000	70.56	70.92	71.15	70.04	66.74	62.14	58.51	56.16	54.78	51.92	0	110.55
OASPL	87.14	87.87	88.36	88.62	86.77	88.89	89.19	89.35	89.12	88.31	0	126.96

NASA Lewis Allison AST Jet Noise Test 1996

rdg	287
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
ambc	35.02
amixb	78.39
scale	4
vid	579.43
m01	0.00471
pamb	14.2752
tamb	502.1
rhumid	84.45
winds1	0
nprc	1.165
nprb	1.21
ptc	16.6306
ptb	17.273
wactc	1.533
wactb	10.13
ttc	1091.25
ttb	492.888
ptmix	17.1886
ttmix	571.536
mixpnd	0.494351
grsvixp	6757.69
badchan	[04,26]
bkgnd	281
escdate	25.Nov.96
esctime	20:50:53
DADSdate	25.Nov.96
DADStime	20:50:53
bichdate	25.Nov.96
bichtime	20:50:53

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:09:47 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	43.62	44.85	46.03	47.18	48.22	49.19	50.08	50.8	51.41	51.84	52.1	52.18	52.17	52.18	52.3	52.62	53.23	54.08	54.83	55.2	54.8	53.25	0	117.82
100	43.98	45.31	46.51	47.59	48.56	49.42	50.18	50.84	51.42	51.91	52.31	52.64	52.95	53.3	53.73	54.3	55.04	55.86	56.37	56.18	54.83	51.89	0	118.34
130	43.9	45.11	45.98	46.61	47.14	47.84	48.13	48.64	49.19	49.8	50.46	51.18	51.95	52.75	53.56	54.33	55.03	55.54	55.86	55.13	53.67	50.95	0	117.51
160	45.22	46.39	47.35	48.17	48.95	49.73	50.48	51.19	51.81	52.31	52.64	52.81	52.9	53.02	53.23	53.62	54.24	54.98	55.32	54.87	53.34	50.52	0	117.87
200	45.54	46.85	47.91	48.8	49.58	50.28	50.93	51.55	52.15	52.74	53.31	53.89	54.41	54.85	55.13	55.18	54.94	54.34	53.26	51.59	49.13	45.88	0	117.31
250	46.2	47.54	48.71	49.77	50.72	51.57	52.28	52.74	53.05	53.48	54.3	55.46	56.2	56.86	57.27	56.85	56.14	55.52	54.81	52.69	48.89	44.18	0	116.65
320	46.27	47.35	48.2	48.93	49.67	50.5	51.32	51.9	51.93	51.99	52.87	53.58	54.98	55.78	55.31	55.15	54.96	53.37	51.33	48.52	45.02	41.12	0	116.9
400	44.72	46.28	47.57	48.68	49.74	50.59	51.24	52.11	52.78	53.24	53.64	54.12	54.6	54.99	54.7	53.88	52.98	51.32	48.86	45.6	41.81	37.8	0	116.2
500	44.16	45.82	47.24	48.38	49.23	49.81	50.33	50.98	51.64	52.2	52.92	53.45	54.03	54.72	54.8	54.35	53.42	51.17	47.74	44.13	40.21	35.78	0	115.8
630	42.74	44.69	46.26	47.5	48.34	48.89	49.55	50.2	50.7	50.97	51.27	51.82	52.18	52.9	52.78	52.15	50.74	48.28	45.16	41.55	37.72	34.01	0	114.02
800	42.33	44.23	45.83	46.89	47.53	48.26	48.98	49.73	50.55	51.31	51.67	52.04	52.29	51.95	51.63	50.55	48.61	45.93	42.85	39.55	35.77	30.87	0	113.31
1000	40.82	42.82	43.92	44.95	45.9	46.86	47.72	48.51	49.27	50.05	50.49	50.63	50.57	50.4	49.71	48.45	46.48	43.83	40.54	36.51	32.21	27.78	0	111.7
1300	39.06	40.87	42.29	43.45	44.38	45.24	46	46.64	47.2	47.88	47.87	47.73	47.58	47.43	47.08	45.6	43.9	41.25	38.06	34.41	29.94	24.75	0	109.29
1600	37.56	38.49	40.87	41.92	42.79	43.81	44.45	45.2	45.85	46	46.17	46.3	46.38	46.23	45.67	44.35	41.99	39.04	35.71	31.99	27.61	21.88	0	107.78
2000	35.92	37.82	39.18	40.31	41.33	42.18	42.86	43.53	44.02	44.27	44.58	44.99	45.05	44.59	43.84	42.56	40.26	36.93	33.13	29.12	24.23	17.5	0	106.13
2500	33.54	35.6	37	38.12	39.21	40.18	41.05	41.7	42.17	42.69	42.95	43.07	42.83	42.5	41.84	40.27	37.67	34.18	30.07	25.79	20.59	0	0	104.11
3200	30.81	33.09	34.84	36.25	37.43	38.51	39.49	40.17	40.64	41.11	41.33	41.35	41.08	40.72	39.87	37.88	34.88	31.1	26.85	21.51	1.66	0	0	102.27
4000	26.89	29.49	31.58	33.28	34.53	35.77	37.08	37.53	37.98	38.53	38.65	38.73	38.09	37.28	36.48	34.51	30.83	26.14	20.34	0.04	0	0	0	99.31
5000	20.41	24.75	27.05	28.78	30.35	31.96	33.44	34.22	34.62	35.07	35.38	35.54	34.47	33.28	32.48	30.11	25.52	18.43	0	0	0	0	0	95.59
6300	0	9.26	19.18	22.54	24.9	26.83	28.64	29.87	30.51	30.82	30.48	30.4	29.45	27.95	26.2	22.03	6.06	0	0	0	0	0	0	90.43
8000	0	0	0	0	0.92	12.95	19.23	21.58	22.49	22.69	22.25	22.15	19.57	15	-2.74	0	0	0	0	0	0	0	0	80.96
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	55.45	58.89	58.08	59.08	59.85	60.73	61.45	62.11	62.64	63.12	63.62	64.11	64.6	65.01	65.07	64.86	64.57	64.12	63.64	62.73	61.09	58.41	0	127.65
PNL	60.07	61.94	63.46	64.66	65.71	66.64	67.49	68.27	68.87	69.35	69.75	70.14	70.39	70.52	70.24	69.49	68.18	66.48	64.66	61.95	58.3	54.02	0	69.21

NASA Lewis Allison AST Jet Noise Test 1996

rdg	288
run	1
test_prog	Allison96
test_num	3
test_facl	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	832.08
m01	0.001
pamb	14.2822
tamb	501.359
rhumid	85.98
winds1	0
nprc	1.393
nprb	1.442
ptc	19.8951
ptb	20.5849
wactc	2.67
wactb	14.218
ttc	1152.01
ttb	491.892
ptmix	20.4843
ttmix	598.269
mixpnd	0.89502
gravixp	14050.5
badchan	(04,26)
bkgnd	281
escdate	25.Nov.96
esctime	21:02:03
DADSdate	97.08.25
DADStime	21:02:03
btchdate	25.Nov.96
btchtime	21:02:03

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 10:24:23 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.48	77.34	79.52	80.44	79.88	79.15	79.17	80.25	81.35	81.3	81.78	82.93	83.64	84.73	85.92	87.95	90.12	92.4	94.18	94.93	96.37	96.41	0	130.76
100	76.7	79.3	78.73	78.53	78.9	78.85	79.98	81.43	81.9	82.17	82.86	84.14	84.87	85.85	87.78	89.8	92.21	94.23	96.13	97.31	97.27	96.69	0	132.21
130	78.33	78.81	78.86	77.58	76.81	79.3	78.58	79.84	79.49	80.7	81.02	82.62	85	85.48	87.28	89.41	92.14	94.35	95.84	97.26	97.14	95.05	0	131.85
160	79.12	78.89	79.12	79.67	79.37	80.07	81.74	81.9	82.34	82.45	82.8	84.88	86.36	87.7	88.93	90.72	93.14	95.27	96.72	97.17	97.76	97.17	0	132.83
200	80.43	81.04	80.52	80.18	81.27	81.33	82.22	83.2	83.42	84.64	85	85.83	86.79	87.88	89.4	91.19	92.95	94.27	94.67	94.88	93.7	93.28	0	131.55
250	80.48	80.09	80.13	81.24	81.38	81.23	82.84	83.21	84.17	85.66	85.72	87.08	88.5	89.96	91.09	91.53	92.64	94.15	94.9	94.24	93.22	91.16	0	131.78
320	80.33	80.3	80.32	81.06	81.55	81.97	82.32	83	83.75	84.2	84.85	86.53	88.14	89.05	90.34	91.95	92.75	92.8	92.37	90.95	89.26	88.28	0	130.59
400	77.92	78.52	79.68	80.73	81.21	82.1	82.22	82.77	83.58	84.66	85.61	86.96	88.07	89.03	90.2	90.94	91.57	91.09	89.41	88.04	86.02	84.75	0	129.64
500	77.67	78.83	79.71	79.55	79.59	81	81.38	81.98	81.97	83.14	83.86	85.37	85.58	87.28	89.02	89.85	90.69	89.73	88.23	85.8	83.49	81.87	0	128.24
630	77.35	78.35	79.19	79.86	80.11	80.54	81.5	81.42	81.81	82.79	83.33	84.82	85.77	86.18	87.11	87.93	88.13	86.76	84.62	82.67	80.87	78.22	0	126.75
800	77.54	77.79	78.12	78.86	79.51	79.75	79.88	80.75	81.56	81.84	83.12	83.8	84.69	85.89	86.14	86.13	86.26	85.01	82.98	80.47	77.85	75.89	0	125.6
1000	77.06	77.88	77.58	77.7	78.53	79.08	79.58	80.46	81.05	81.55	82.38	82.7	83.62	84.32	85.17	85.15	84.76	82.9	80.98	78.6	75.98	74	0	124.57
1300	76.33	76.91	77.29	77.8	77.91	78.56	78.89	79.58	80.08	80.85	81.29	82.09	82.7	83.64	84.08	83.63	82.92	81.4	79.51	77.69	75.26	73.04	0	123.58
1600	75.5	76.32	76.81	77.11	77.36	77.85	78.57	78.8	79.55	80.08	80.22	81.42	81.89	82.57	82.95	82.25	81.74	80.2	78.17	76.52	73.79	71.55	0	122.67
2000	74.74	75.73	76.12	76.38	76.9	77.19	77.78	78.35	78.84	79.05	79.67	80.57	81.26	81.98	81.74	81.24	80.79	79.34	77.49	75.42	72.98	70.74	0	121.88
2500	73.58	74.51	75.17	75.77	76.17	76.39	77.12	77.68	78.23	78.27	78.98	79.65	80.41	80.97	80.83	80.48	79.86	78.29	76.47	74.47	71.87	69.26	0	121.03
3200	72.58	73.65	74.4	75.31	75.85	75.73	77.1	76.97	77.55	78.01	78.46	79.09	79.79	80.1	80.17	79.46	78.88	77.23	75.3	73.47	70.45	68.02	0	120.35
4000	71.44	72.46	73.56	74.52	74.54	75.1	76.4	76.23	76.68	77.11	77.97	78.39	78.47	78.54	79.18	78.54	77.58	75.86	74.19	72.23	69.34	66.54	0	119.36
5000	69.69	71.13	72.32	72.8	72.52	73.77	75.4	75.76	76.05	76.28	76.95	77.43	77.4	77.7	78.01	77.04	76.07	74.08	72.94	70.85	67.4	65.11	0	118.25
6300	67.88	69.85	71.43	72.15	72.08	73.25	75.31	75.78	75.87	76.52	76.45	76.98	77.01	76.92	76.96	75.73	74.8	73.01	72.12	69.01	65.68	63.79	0	117.68
8000	66.85	68.61	70.44	71.73	71.88	72.83	75.63	75.8	76.01	76.35	77.08	77.32	76.8	76.67	76.38	75.03	74.19	71.98	71.32	67.8	64.11	62.52	0	117.51
10000	63.81	65.3	67.4	69.52	70.19	71.74	73.7	74.38	74.51	74.26	75.88	74.87	75.11	75.11	75.04	73.71	71.79	69.85	68.43	65.27	61.31	59.8	0	115.72
OASPL	90.24	90.76	91.18	91.61	91.88	92.37	93.11	93.71	94.25	94.97	95.5	96.71	97.76	98.73	99.89	100.94	102.27	103.29	104.07	104.39	104.32	103.47	0	141.52

NASA Lewis Allison AST Jet Noise Test 1996

rdg 288
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbid NATR full wedge
rigbid JER w/ external supplement
mixbid BASE
nozbid BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 832.08
m01 0.001
pamb 14.2822
tamb 501.358
rhumid 85.98
winds1 0
nprc 1.393
nprb 1.442
ptc 19.8951
ptb 20.5949
wactc 2.67
wactb 14.216
ttc 1152.01
ttb 491.892
ptmix 20.4843
ttmix 598.289
mixpnd 0.685024
grsvixp 14050.5
badchan (04,26)
bkgnd 281
escdate 25.Nov.96
esctime 21:02:03
DADSdate 97.08.25
DADStime 21:02:03
btchdate 25.Nov.96
btchtime 21:02:03
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 10:24:33 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	53.69	58.04	58.62	59.85	59.53	58.98	59.09	60.2	61.28	61.12	61.42	62.34	62.74	63.43	64.14	65.58	67.05	68.5	69.28	68.82	68.79	66.96	0	130.68
100	56.88	57.97	57.79	57.91	58.53	58.64	59.88	61.36	61.8	61.96	62.49	63.52	63.94	64.52	65.96	67.19	69.09	70.27	71.17	71.14	69.61	67.15	0	132.07
130	56.45	57.22	57.88	56.92	56.39	59.05	58.43	59.53	59.34	60.45	60.6	61.95	64.02	64.1	65.41	66.94	68.96	70.33	70.8	71	69.37	65.37	0	131.63
160	57.17	57.44	58.07	58.93	58.88	59.76	61.53	61.72	62.13	62.14	62.11	64.15	65.31	66.25	66.97	68.16	69.86	71.15	71.57	70.78	69.84	67.3	0	132.49
200	58.35	59.47	59.37	59.35	60.68	60.92	61.9	62.93	63.11	64.22	64.41	65	65.63	66.31	67.33	68.5	69.54	69.99	69.34	68.06	65.54	63.13	0	131.1
250	58.22	58.35	58.81	60.24	60.64	60.67	62.39	62.79	63.71	65.08	64.98	66.09	67.17	68.21	68.83	68.65	69.02	68.63	69.3	67.33	64.69	60.53	0	131.11
320	57.83	58.32	58.78	59.86	60.61	61.22	61.67	62.39	63.11	63.45	63.71	65.33	66.61	67.06	67.85	68.83	68.86	67.78	66.42	65.63	60.24	57.06	0	129.7
400	55.06	56.22	57.83	59.22	59.96	61.03	61.25	61.86	62.64	63.61	64.36	65.45	66.2	66.73	67.35	67.42	67.24	65.8	62.96	60.14	56.33	52.66	0	128.42
500	54.37	56.12	57.46	57.67	58.01	59.59	60.09	60.71	60.67	61.72	62.04	63.49	63.34	64.56	65.76	65.67	65.87	63.91	61.16	56.99	52.9	48.67	0	126.59
630	53.56	55.15	56.48	57.53	58.09	58.72	59.61	59.77	60.12	60.99	61.32	62.32	63.08	62.98	63.32	63.41	62.71	60.25	58.77	53.12	49.01	43.75	0	124.66
800	53.18	54.08	54.93	56.07	57.03	57.49	57.55	58.85	59.42	59.58	60.64	61.03	61.51	61.86	61.79	61.02	60.22	57.8	54.36	50.06	45.15	40.06	0	123.02
1000	52.16	53.44	53.88	54.43	55.58	56.36	58.98	57.9	58.46	58.82	59.43	59.44	59.92	60.06	60.26	59.42	58.05	54.94	51.53	47.23	42.11	38.76	0	121.49
1300	50.82	52.1	53.05	53.8	54.45	55.34	55.8	58.52	56.96	57.62	57.84	58.29	58.45	58.83	58.55	57.25	55.47	52.65	49.14	45.26	40.15	34.2	0	119.95
1600	49.3	50.87	51.94	52.72	53.32	54.06	54.92	55.2	55.9	56.28	56.19	57.04	57.13	57.11	56.74	55.14	53.5	50.55	46.79	42.92	37.26	30.98	0	118.44
2000	47.66	49.44	50.47	51.23	52.13	52.69	53.43	54.06	54.48	54.55	54.91	55.42	55.62	55.69	54.66	53.17	51.52	48.56	44.84	40.33	34.7	26	0	116.85
2500	45.32	47.1	48.45	49.59	50.38	50.88	51.78	52.41	52.9	52.75	53.2	53.45	53.67	53.55	52.53	51.09	49.17	45.96	42.04	37.37	31.02	23.52	0	114.91
3200	42.5	44.52	46.05	47.59	48.58	48.75	50.31	50.26	50.77	51.04	51.18	51.34	51.44	51	50.1	48.19	45.88	42.58	38.28	33.35	26.23	15.2	0	112.65
4000	38.66	40.82	42.8	44.45	45.03	45.94	47.4	47.33	47.66	47.91	48.39	48.29	47.65	46.87	46.39	44.31	41.58	37.52	33.22	27.53	18.17	0	0	109.26
5000	32.82	35.51	37.71	39.13	39.48	41.09	42.99	43.36	43.61	43.54	43.81	43.67	42.82	42	41.02	38.38	35.16	30.41	25.75	18.4	0	0	0	104.46
6300	23.75	27.88	30.78	32.53	33.24	34.96	37.31	37.89	37.91	38.25	37.58	37.31	36.37	34.91	33.21	29.88	25.9	19.01	0	0	0	0	0	96.14
8000	0	6.94	18.64	22.61	23.85	25.95	29.53	29.84	29.85	29.8	29.7	28.91	26.97	24.57	21.28	12.03	0	0	0	0	0	0	0	89.28
10000	0	0	0	0	0	0	-2.16	0.89	0.76	-1.78	0	0	0	0	0	0	0	0	0	0	0	0	0	65.31
OASPL	67.12	68.1	68.87	69.62	70.13	70.77	71.55	72.25	72.78	73.44	73.75	74.82	75.62	76.24	76.98	77.59	78.39	78.77	78.68	77.87	76.37	73.61	0	140.64
PNL	72.21	73.59	74.89	75.7	76.4	77.16	78.03	78.62	79.12	79.71	80.15	81.01	81.55	81.91	82.24	82.07	81.85	81.05	79.76	77.58	75.15	71.49	0	81.95

NASA Lewis Allison AST Jet Noise Test 1996

rdg	290
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	923.25
m01	0.00371
pamb	14.2797
tamb	501.297
rhumid	86.06
winds1	0
nprc	1.541
nprb	1.608
ptc	22.005
ptb	22.9618
wactc	2.915
wactb	16.76
ttc	1291.21
ttb	492.452
ptmix	22.82
ttmix	610.794
mixpnd	0.761952
grsvirp	18164.9
badchan	{04,26}
bkgnd	281
esodate	25.Nov.96
esctime	21:12:21
DADSdate	25 Nov.96
DADStime	21:12:21
btchdate	25.Nov.96
btchtime	21:12:21

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:12:37 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.83	82.71	83.31	83.71	83.96	84.13	84.27	84.44	84.71	85.13	85.77	86.67	87.85	89.3	91.04	93.06	95.37	97.81	99.97	101.42	101.74	100.5	0	136.04
100	80.77	81.64	82.34	82.93	83.44	83.92	84.4	84.93	85.54	86.28	87.18	88.29	89.63	91.21	93.06	95.18	97.57	100.06	102.2	103.48	103.43	101.56	0	137.87
130	83.33	83.76	84.03	84.13	84.15	84.17	84.24	84.44	84.82	85.47	86.44	87.77	89.44	91.39	93.59	95.99	98.55	101.09	103.18	104.41	104.32	102.51	0	138.72
160	84.12	84.3	84.33	84.42	84.71	85.34	86.21	86.95	87.33	87.74	88.58	89.96	91.71	93.71	95.79	97.81	99.58	101	102.01	102.57	102.83	102.13	0	138.4
200	85.59	86.29	86.75	87.03	87.21	87.34	87.5	87.75	88.15	88.76	89.65	90.85	92.31	93.96	95.7	97.47	99.17	100.83	101.51	101.42	100.45	98.87	0	137.76
250	85.26	85.73	86.12	86.46	86.8	87.19	87.64	88.2	88.88	89.7	90.7	91.92	93.4	95.12	97.03	98.99	100.8	102.28	103.23	103.43	102.71	100.94	0	139.35
320	85.91	86.72	87.35	87.83	88.15	88.33	88.43	88.47	88.51	88.81	89.59	90.96	92.79	94.6	96.06	97.3	98.35	99.38	100.33	100.77	100.35	98.99	0	137.4
400	84.15	84.94	85.76	86.56	87.31	87.94	88.48	88.96	89.57	90.43	91.21	91.99	93.27	94.95	96.54	97.35	97.86	98.37	98.91	99.41	99.34	98.82	0	136.98
500	84.12	84.75	85.32	85.82	86.23	86.59	86.96	87.51	88.19	88.91	89.78	90.96	92.48	94.24	95.6	96.03	96.35	96.63	97.35	98.73	100.01	99.21	0	136.07
630	82.5	83.27	83.94	84.5	84.96	85.36	85.81	86.43	87.2	88.02	88.96	90.18	91.56	93.03	93.94	94.34	94.57	93.36	92.83	94.01	95.47	95.13	0	133.61
800	82.36	82.96	83.45	83.86	84.31	84.79	85.32	85.91	86.6	87.36	88.15	88.84	89.88	91.51	92.63	92.82	91.99	90.78	89.82	90.59	91.88	91.76	0	131.76
1000	81.51	82.14	82.68	83.19	83.7	84.25	84.85	85.41	85.86	86.3	87.07	88.25	89.36	90.33	90.91	90.89	90.18	88.39	86.36	86.11	87.08	86.7	0	130.15
1300	81.04	81.78	82.35	82.8	83.25	83.76	84.33	84.91	85.43	85.89	86.47	87.43	88.36	89.05	89.35	89.2	88.58	87.24	84.94	83.07	82.11	80.07	0	128.98
1600	80.44	81.13	81.59	81.99	82.45	83.01	83.57	84.23	84.85	85.29	85.8	86.49	87.29	87.85	88.17	87.61	86.85	85.6	83.03	80.66	78.71	76.67	0	127.87
2000	79.53	80.4	80.92	81.26	81.8	82.53	83.18	83.81	84.37	84.74	85.13	85.55	86.09	86.99	87.29	86.36	85.63	84.25	81.75	79.52	77.39	75.09	0	127.02
2500	78.34	79.28	80.07	80.72	81.34	81.97	82.61	83.3	83.75	83.98	84.2	84.6	85.11	85.86	86.07	85.35	84.52	83.05	80.62	78.74	76.76	73.75	0	126.11
3200	77.46	78.41	79.2	79.87	80.51	81.23	82.06	82.96	83.37	83.28	83.68	84.11	84.48	84.91	85.24	84.58	83.5	82.03	79.64	77.7	75.31	72.49	0	125.41
4000	76.36	77.45	78.2	78.8	79.45	80.36	81.36	82.04	82.27	82.42	82.86	83.13	83.12	83.46	83.92	83.53	82.41	80.33	78.3	76.98	74.37	71.39	0	124.32
5000	74.87	76.04	76.77	77.16	77.69	78.92	80.21	81.04	81.26	81.28	81.68	81.82	81.86	82.24	82.78	82.04	80.89	78.9	76.95	75.55	72.71	70.07	0	123.04
6300	73.4	74.8	75.7	76.15	76.65	77.85	79.42	80.66	81.06	80.76	80.7	80.8	81.01	81.4	81.58	80.77	79.58	77.64	75.67	73.92	71.29	69.14	0	122.15
8000	72.22	73.77	74.83	75.52	76.25	77.51	79.06	80.29	80.81	80.48	80.49	80.46	80.27	80.64	80.91	80.11	78.57	76.34	74.49	72.86	70.23	68.24	0	121.61
10000	69.11	70.64	72.16	73.67	74.9	76.04	76.91	78.07	78.63	77.91	78.01	77.55	77.57	78.27	79.19	78.41	76.09	73.37	70.86	69.65	67.72	64.59	0	119.33
OASPL	95.34	96.02	96.56	97	97.41	97.85	98.33	98.84	99.33	99.87	100.63	101.85	102.95	104.49	105.96	107.21	108.51	109.83	111.03	111.78	111.69	110.38	0	147.92

NASA Lewis Allison AST Jet Noise Test 1996

rdg	290
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	923.25
m01	0.00371
pamb	14.2797
tamb	501.297
rhumid	86.06
winds1	0
nprc	1.541
nprb	1.808
ptc	22.005
ptb	22.9818
wactc	2.915
wactb	16.76
ttc	1291.21
ttb	492.452
ptmix	22.82
ttmix	610.794
mixpnd	0.781952
grsmxp	18164.9
badchan	{04,26}
bkgnd	281
escdate	25.Nov.96
esctime	21:12:21
DADSdate	25.Nov.96
DADStime	21:12:21
blchdate	25.Nov.96
blchtime	21:12:21

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 02:12:43 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.05	61.41	62.41	63.13	63.62	63.95	64.19	64.4	64.63	64.96	65.43	66.09	66.95	68	69.25	70.69	72.3	73.9	75.06	75.31	74.16	71.06	0	135.95
100	58.95	60.3	61.41	62.31	63.07	63.71	64.3	64.86	65.44	66.07	66.81	67.68	66.7	69.86	71.24	72.77	74.46	76.11	77.24	77.31	75.77	72.01	0	137.73
130	61.46	62.4	63.04	63.46	63.73	63.92	64.09	64.32	64.66	65.22	66.02	67.11	68.46	70.01	71.72	73.53	75.38	77.07	78.15	78.15	76.55	72.83	0	138.5
160	62.17	62.64	63.26	63.69	64.23	65.03	66	66.77	67.11	67.42	68.09	69.22	70.66	72.25	73.83	75.25	76.31	76.87	76.85	76.18	74.71	72.26	0	138.08
200	63.51	64.72	65.58	66.19	66.62	66.92	67.19	67.47	67.83	68.34	69.06	70.01	71.15	72.38	73.83	74.78	75.75	76.34	76.17	74.81	72.26	68.68	0	137.29
250	63	63.96	64.79	65.46	66.06	66.62	67.19	67.78	68.42	69.14	69.96	70.92	72.07	73.37	74.77	76.1	77.16	77.75	77.63	76.52	74.16	70.26	0	138.61
320	63.4	64.74	65.8	66.62	67.2	67.57	67.78	67.85	67.65	68.04	68.84	69.78	71.25	72.64	73.59	74.17	74.45	74.55	74.37	73.43	71.28	67.7	0	136.37
400	61.26	62.62	63.89	65.05	66.07	66.99	67.54	68.06	68.63	69.37	69.97	70.49	71.42	72.64	73.68	73.83	73.53	73.06	72.43	71.48	69.56	66.65	0	135.54
500	60.84	62.05	63.08	63.94	64.63	65.18	66.69	66.25	66.9	67.5	68.16	69.09	70.24	71.54	72.33	72.06	71.54	70.81	70.29	70.15	69.45	66.05	0	134.08
630	58.7	60.06	61.23	62.17	62.93	63.54	64.12	64.78	65.51	66.21	66.97	67.88	66.87	69.86	70.17	69.81	69.16	66.86	65.02	64.54	63.88	60.69	0	131.21
800	58.03	59.27	60.26	61.09	61.83	62.52	63.16	63.82	64.46	65.12	65.68	66.07	66.69	67.81	68.3	67.52	65.92	63.57	61.21	60.19	59.16	55.94	0	128.93
1000	56.61	57.9	58.99	59.92	60.75	61.52	62.26	62.86	63.26	63.57	64.11	64.96	65.66	66.1	66	65.16	63.46	60.46	56.91	54.76	53.26	49.5	0	126.97
1300	55.53	56.97	58.1	59	59.78	60.53	61.24	61.86	62.35	62.67	63.01	63.64	64.14	64.25	63.83	62.81	61.14	58.49	54.56	50.63	46.99	41.37	0	125.33
1600	54.23	55.66	56.73	57.6	58.41	59.22	59.92	60.64	61.2	61.51	61.76	62.1	62.43	62.4	61.96	60.5	58.61	55.97	51.66	47.06	42.23	36.16	0	123.85
2000	52.48	54.13	55.29	56.12	57.03	58.01	58.81	59.51	60.02	60.24	60.36	60.41	60.45	60.73	60.24	58.32	56.37	53.46	49.1	44.46	39.12	32.38	0	122.03
2500	50.08	51.87	53.35	54.54	55.57	56.46	57.27	58.02	58.42	58.39	58.42	58.41	58.4	58.45	57.78	55.96	53.83	50.73	46.2	41.66	36.08	28.01	0	120.05
3200	47.39	49.3	50.87	52.14	53.22	54.26	55.31	56.27	56.61	56.32	56.39	56.39	56.16	55.8	55.16	53.29	50.68	47.4	42.63	37.56	31.02	22.16	0	117.77
4000	43.55	45.76	47.42	48.72	49.9	51.16	52.36	53.09	53.23	53.18	53.26	53.03	52.33	51.77	51.1	49.33	46.36	42.14	37.32	32.27	24.61	0	0	114.28
5000	37.86	40.41	42.24	43.52	44.61	46.25	47.84	48.7	48.81	48.6	48.55	48.06	47.28	46.58	45.77	43.32	39.99	35.32	29.92	23.45	0	0	0	109.31
6300	29.83	32.97	35.17	36.62	37.92	39.08	41.54	42.9	43.2	42.56	41.96	41.28	40.42	39.42	37.92	34.92	30.93	25.14	15.04	0	0	0	0	102.7
8000	12.95	21.13	24.76	27.07	29	31.06	33.12	34.4	34.77	34.12	33.36	32.32	30.65	29.12	27.01	22.51	12.46	0	0	0	0	0	0	93.64
10000	0	0	0	0	0	5.57	14.11	17.46	18.51	15.9	14.09	7.07	0	0	0	0	0	0	0	0	0	0	0	74.47
OASPL	72.21	73.4	74.36	75.12	75.76	76.32	76.63	77.31	77.76	78.27	78.91	79.75	80.82	82.03	83.1	83.92	84.68	85.29	85.55	85.06	83.35	79.95	0	146.99
PNL	77.62	79.1	80.26	81.17	82.04	82.84	83.56	84.16	84.65	85.09	85.58	86.12	86.86	87.76	88.42	88.46	88.57	88.29	87.56	86.35	84.04	79.96	0	88.9

NASA Lewis Allison AST Jet Noise Test 1996

rdg	291
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	998.24
m01	0.00221
pamb	14.2807
tamb	501.311
rhumid	87.58
winds1	0
nprc	1.738
nprb	1.818
ptc	24.8199
ptb	25.9823
wactc	3.477
wactb	18.898
ttc	1383.38
ttb	495.303
ptmix	25.7858
ttmix	632.705
mixpnd	0.807828
grsvixp	22388.5
badchan	{04,26}
bkgnd	281
escdate	25.Nov.96
esctime	21:21:25
DADSdate	97.08.19
DADStime	21:21:25
btchdate	25.Nov.96
btchtime	21:21:25

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Tue Aug 19 15:48:14 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data amb	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	85.94	86.83	87.34	87.55	87.54	87.4	87.22	87.08	87.05	87.22	87.68	88.47	89.61	91.09	92.91	95.05	97.52	100.13	102.48	104.12	104.62	103.54	0	138.63
100	85.81	86.26	86.39	86.47	86.69	87.26	88.04	88.57	88.57	88.54	88.98	90.16	91.98	94.23	96.85	99.65	102.43	104.92	106.78	107.64	107.19	105.13	0	142.03
130	87.47	88.2	88.4	88.21	87.8	87.3	88.86	88.62	86.71	87.29	88.48	90.36	92.78	95.56	98.5	101.4	104.07	106.28	107.83	108.47	107.96	106.05	0	143.1
160	89.24	89.95	90.29	90.38	90.26	90.1	89.96	89.98	90.2	90.77	91.77	93.27	95.16	97.36	98.74	102.21	104.65	106.76	107.91	107.56	106.39	105.86	0	143.2
200	88.52	89.2	89.85	89.93	90.12	90.28	90.47	90.75	91.16	91.74	92.56	93.71	95.32	97.45	100.03	102.68	104.92	106.4	107.04	106.72	105.8	104.01	0	142.79
250	89.06	89.51	89.85	90.14	90.4	90.66	90.97	91.39	91.95	92.71	93.71	95.02	96.71	98.77	101.15	103.61	105.79	107.38	108.18	108.05	107.15	105.68	0	143.92
320	89.44	90	90.42	90.73	90.97	91.17	91.4	91.71	92.15	92.78	93.63	94.8	96.34	98.28	100.54	103	105.37	107.05	107.37	108.1	104.24	102.52	0	142.95
400	88.31	88.84	89.38	89.9	90.4	90.88	91.42	92.08	92.87	93.78	94.76	95.84	97.13	98.77	100.78	102.95	104.98	106.56	107.27	106.7	104.98	102.5	0	143.01
500	88.89	89.23	89.48	89.88	89.87	90.12	90.47	90.96	91.63	92.51	93.65	95.06	96.67	98.32	99.97	101.71	103.58	105.45	106.62	106.12	104.12	101.5	0	142.12
630	86.81	87.24	87.65	88.07	88.52	89.02	89.59	90.25	91.02	91.91	92.96	94.2	95.61	97.14	98.68	100.11	101.64	103.54	104.97	104.16	101.94	98.91	0	140.43
800	86.2	86.73	87.19	87.61	88.04	88.5	89.02	89.64	90.38	91.28	92.38	93.65	94.97	96.27	97.45	98.27	99.08	101.22	103.35	102.06	98.81	96.24	0	138.68
1000	85.46	86.02	86.47	86.87	87.27	87.69	88.18	88.77	89.5	90.41	91.54	92.83	94	94.82	95.65	96.44	96.35	98.1	100.7	98.92	95	92.22	0	136.49
1300	84.89	85.54	86.08	86.56	87	87.43	87.93	88.57	89.32	90.05	91.01	92.27	93.12	93.67	93.95	93.91	93.65	94.45	95.45	93.19	89.35	86.72	0	134.09
1600	84.27	85.04	85.64	86.15	86.59	87	87.52	88.09	88.74	89.48	90.31	91.24	91.81	92.12	92.31	92.27	91.74	91.47	91.02	88.77	85.05	82.11	0	132.47
2000	83.56	84.44	85.13	85.65	86.02	86.56	87.14	87.46	87.84	88.57	89.4	90.12	90.62	91.08	91.23	90.69	90.07	89.29	87.96	85.88	82.84	79.89	0	131.26
2500	82.58	83.56	84.39	85.02	85.44	85.87	86.51	87	87.47	87.99	88.88	89.49	89.98	90.01	90.06	89.73	89.02	87.84	85.73	83.72	81.39	78.96	0	130.42
3200	81.79	82.86	83.68	84.3	84.69	85.18	85.95	86.49	87.08	87.69	88.07	88.93	89.09	88.79	88.86	88.74	88.06	86.63	84.77	82.72	80.24	77.91	0	129.63
4000	80.41	81.7	82.68	83.42	83.96	84.55	85.3	85.57	86.04	86.71	87.43	88.37	88.24	87.57	87.62	87.59	86.66	84.95	83.49	82	79.68	77.28	0	128.67
5000	78.71	80.01	80.94	81.6	82.05	82.85	83.91	84.42	84.93	85.88	86.35	87.25	87.32	86.4	86.19	86.07	85.2	83.52	81.95	80.25	77.9	75.78	0	127.37
6300	77.02	78.47	79.58	80.38	81	81.98	83.21	83.76	84.33	84.83	85.28	86.41	86.35	85.16	84.88	84.56	83.73	82.12	80.84	79.28	76.42	74.99	0	126.32
8000	75.58	77.12	78.35	79.33	80.14	81.3	82.85	83.07	83.47	84.04	84.83	85.88	85.73	84.34	83.54	83.28	82.61	80.79	79.81	78.34	75.28	74.18	0	125.51
10000	72.14	73.57	75.12	76.79	78.35	79.65	80.31	80.5	80.88	81.26	81.98	82.76	83.16	81.88	81.14	80.84	79.79	77.73	76.17	75.24	72.45	69.85	0	122.86
OASPL	99.39	100.02	100.47	100.79	101.05	101.34	101.73	102.14	102.67	103.37	104.29	105.49	106.8	108.34	110.22	112.27	114.32	116.13	117.24	117.03	115.88	114.16	0	152.95

NASA Lewis Allison AST Jet Noise Test 1996

rdg	291
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	996.24
m01	0.00221
pamb	14.2807
tamb	501.311
rhumid	87.58
winds1	0
nprc	1.738
nprb	1.818
ptc	24.8199
ptb	25.9623
wactc	3.477
wactb	18.996
ttc	1383.38
ttb	495.303
ptmix	25.7856
ttmix	832.705
mixpnd	0.807828
grsvisp	22388.5
badchan	(04,26)
bkgnd	281
escdate	25.Nov.96
esctime	21:21:25
DADSdate	97.08.19
DADStime	21:21:25
btchdate	25.Nov.96
btchtime	21:21:25

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 15:48:25 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.15	65.53	66.44	66.96	67.2	67.23	67.15	67.04	66.98	67.05	67.33	67.88	68.71	69.79	71.12	72.68	74.45	76.22	77.57	78.01	77.03	74.09	0	138.55
100	63.99	64.93	65.46	65.85	66.32	67.05	67.94	68.5	68.47	68.33	68.61	69.55	71.02	72.9	75.03	77.24	79.31	80.97	81.62	81.47	79.52	75.58	0	141.89
130	65.8	66.81	67.41	67.55	67.38	67.05	66.71	66.5	66.56	67.04	68.06	69.69	71.8	74.17	76.82	78.93	80.89	82.26	82.79	82.21	80.19	76.37	0	142.88
160	67.29	68.49	69.24	69.63	69.78	69.78	69.75	69.78	69.98	70.45	71.29	72.53	74.11	75.89	77.78	79.65	81.38	82.63	82.76	81.17	78.47	75.98	0	142.88
200	66.45	67.63	68.49	69.1	69.53	69.87	70.16	70.47	70.84	71.32	71.97	72.87	74.16	75.88	77.98	80	81.5	82.11	81.71	80.12	77.42	73.83	0	142.3
250	66.8	67.75	68.52	69.14	69.66	70.1	70.52	70.97	71.49	72.14	72.97	74.03	75.38	77.02	78.89	80.73	82.17	82.86	82.58	81.14	78.61	75.05	0	143.18
320	66.93	68.02	68.87	69.52	70.02	70.41	70.75	71.1	71.5	72.02	72.7	73.61	74.8	76.29	78.04	79.87	81.47	82.22	81.42	78.77	75.18	71.24	0	141.93
400	65.45	66.54	67.52	68.39	69.16	69.83	70.48	71.17	71.93	72.72	73.52	74.33	75.27	76.47	77.93	79.43	80.65	81.26	80.79	78.75	75.19	70.32	0	141.5
500	65.6	66.52	67.24	67.8	68.28	68.72	69.18	69.71	70.33	71.1	72.04	73.18	74.42	75.62	76.7	77.75	78.77	79.61	79.53	77.49	73.56	68.34	0	140.07
630	63.03	64.05	64.95	65.75	66.5	67.2	67.9	68.8	69.33	70.1	70.95	71.9	72.93	73.97	74.9	75.59	76.23	77.04	77.12	74.65	70.33	64.45	0	137.78
800	61.85	63.02	63.99	64.82	65.55	66.23	66.66	67.54	68.24	69.02	69.9	70.87	71.78	72.57	73.11	73.16	73.02	74.02	74.73	71.65	66.09	60.41	0	135.47
1000	60.54	61.77	62.77	63.6	64.31	64.95	65.56	66.21	66.9	67.67	68.58	69.56	70.31	70.59	70.76	70.74	69.65	70.18	71.27	67.6	61.19	55.02	0	132.82
1300	59.36	60.73	61.83	62.78	63.54	64.2	64.84	65.53	66.23	66.81	67.54	68.48	68.88	68.87	68.45	67.54	66.22	65.73	65.14	60.85	54.34	48.03	0	130.18
1600	58.06	59.57	60.77	61.75	62.54	63.21	63.87	64.49	65.1	65.7	66.27	66.85	66.95	66.65	66.1	65.16	63.51	61.84	59.87	55.23	48.61	41.6	0	128.12
2000	56.48	58.16	59.5	60.51	61.26	62.06	62.79	63.15	63.47	64.07	64.63	64.96	64.98	64.79	64.15	62.62	60.8	58.55	55.34	50.83	44.63	37.19	0	126.22
2500	54.29	56.16	57.66	58.83	59.86	60.37	61.18	61.72	62.14	62.49	62.91	63.31	63.26	62.59	61.77	60.36	58.34	55.52	51.32	46.64	40.67	33.2	0	124.32
3200	51.69	53.74	55.35	56.58	57.43	58.23	59.16	59.76	60.31	60.72	60.79	61.2	60.74	59.67	58.79	57.45	55.26	51.99	47.78	42.6	35.91	27.67	0	121.95
4000	47.64	50.06	51.92	53.34	54.4	55.36	56.31	56.67	57.07	57.5	57.85	58.27	57.43	55.85	54.81	53.37	50.63	46.77	42.55	37.37	29.96	16.9	0	118.59
5000	41.7	44.37	46.4	47.92	49.01	50.2	51.46	52.08	52.5	52.99	53.29	53.51	52.74	50.75	49.2	47.4	44.39	39.97	34.88	28.62	18	0	0	113.61
6300	33.38	36.56	39.03	40.91	42.31	43.78	45.34	46.03	46.52	46.69	46.49	46.81	45.9	43.23	41.25	38.74	35.06	30.01	23.65	8.03	0	0	0	106.83
8000	20.36	25.3	26.69	31.19	33.1	34.97	36.83	37.24	37.48	37.66	37.73	37.81	36.15	32.97	29.84	26.4	21.04	4.14	0	0	0	0	0	97.54
10000	0	0	0	0	12.47	16.85	21.1	21.81	22.04	21.78	21.51	20.94	18.31	2.85	0	0	0	0	0	0	0	0	0	80.72
OASPL	78.28	77.42	78.28	78.87	79.33	79.73	80.14	80.56	81.02	81.6	82.34	83.31	84.45	85.79	87.36	88.95	90.38	91.33	91.35	89.96	87.39	83.73	0	151.85
PNL	81.73	83.06	84.15	85.11	85.84	86.48	87.18	87.67	88.15	88.75	89.44	90.25	90.99	91.75	92.71	93.83	94.3	94.65	94.18	92.13	88.87	84.59	0	94.18

NASA Lewis Allison AST Jet Noise Test 1996

rdg 295
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld BASE
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 574.79
m01 0.19772
pamb 14.247
tamb 500.519
rhumid 88.69
winds1 0
nprc 1.169
nprb 1.209
ptc 16.6547
ptb 17.2246
wactc 1.552
wactb 9.833
ttc 1099.77
ttb 498.084
ptmix 17.1469
ttmix 580.106
mixpnd 0.486756
grsvixp 6543.96
badchan (04,23,24,25,26)
bkgnd 282
escdate 25 Nov 96
esctime 21:46:47
DADSdate 97.08.20
DADStime 21:46:47
bichdate 25 Nov 96
bichtime 21:46:47
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 14:53:19 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.78	60.74	61.53	62.2	62.78	63.24	63.66	64.03	64.36	64.67	64.83	64.38	64.68	69	69.03	66.95	66.57	67.28	68.45	69.83	70.53	71.05	0	106.81
100	59.66	60.57	61.47	62.32	63.07	63.72	64.23	64.61	64.83	64.91	64.89	65.01	65.9	66.37	68.71	68.16	68.22	68.56	69.03	69.54	70.02	70.6	0	109.11
130	60.25	61.43	62.32	62.97	63.43	63.75	63.93	64	63.97	63.87	63.9	64.7	66.43	67.72	68.39	68.7	68.6	68.77	68.75	68.82	69.15	69.96	0	108.92
160	58.93	59.73	60.68	62.09	62.84	63	63.35	64.11	64.9	65.25	65.42	66.22	66.64	67.23	67.59	68.02	68.58	69.28	70.14	70.94	71.5	71.71	0	109.4
200	59.42	60.89	62.42	64.93	65.34	64.47	64.74	65.13	66.85	66.83	67.33	68.65	66.84	69.73	70.49	70.46	70.31	70.45	70.28	70.57	71	70.66	0	110.82
250	64.07	65.85	67.11	67.99	68.46	68.61	66.67	69.03	69.76	70.32	71.15	72.02	72.56	73.34	74.08	74.42	74.46	74.31	73.81	73.37	73.05	72.51	0	114.36
320	64.68	67.09	68.04	68.15	68.04	68.05	68.21	68.53	68.99	69.59	70.32	71.13	71.98	72.7	73.29	73.63	73.6	73.02	71.96	70.95	70.05	68.9	0	113.47
400	63.46	65.97	67.14	67.82	67.94	68.52	69.17	69.71	70.22	70.76	71.33	71.95	72.6	73.22	73.58	73.54	72.98	71.76	70.06	68.68	68.26	67.14	0	113.56
500	64.36	66.9	68.14	68.74	69.14	69.52	69.86	70.15	70.54	71.13	71.97	72.86	73.67	74.38	74.68	74.45	73.85	72.69	71.65	70.29	68.92	67.58	0	114.47
630	63.66	66.13	67.41	68.17	68.7	69.15	69.58	70	70.44	70.93	71.49	72.11	72.64	73.64	74.02	73.73	72.96	71.96	70.65	69.4	68.32	67.14	0	113.85
800	63.03	65.32	66.66	67.55	68.17	68.57	69.04	69.68	70.41	71.11	71.55	71.41	71.67	73.91	73.64	72.15	71.06	69.8	68.23	67.1	66.21	64.74	0	113.13
1000	61.96	63.83	64.64	65.31	65.97	67.2	68.29	69.01	69.76	70.43	70.93	70.98	71.13	72.16	71.52	70.36	69.4	68.31	66.96	65.49	63.98	62.42	0	111.89
1300	61.22	62.92	63.81	64.64	65.39	66.27	67	67.41	67.69	67.98	68.22	67.94	67.62	67.92	68	67.56	66.55	65.29	64.03	62.94	61.94	60.89	0	109.43
1600	59.72	61.7	62.78	63.5	64.19	65.01	65.71	66.12	66.27	66.29	66.33	68.55	66.87	67.21	67.18	67.05	66.52	65.27	63.77	62.18	60.56	59.12	0	108.33
2000	58.48	60.33	61.36	62.1	62.68	63.85	64.75	65.12	66.19	65.32	65.58	66.02	66.18	66.01	66	65.96	65.08	63.44	61.89	60.56	59.36	57.96	0	107.24
2500	57.43	59.24	60.15	60.8	61.55	62.64	63.74	64.27	64.33	64.37	64.6	65.04	64.96	64.63	64.65	64.92	64.2	62.15	60.36	58.85	57.46	56.22	0	108.13
3200	57.37	59.34	60.51	61.44	62.25	63.37	64.52	65.03	64.96	64.62	64.73	65.05	65.39	65.19	65.01	64.83	63.93	62.15	60.13	58.22	56.54	55.48	0	106.49
4000	56.39	58.74	60.24	61.49	62.47	63.73	65.04	65.33	65.11	64.89	64.81	65.29	65.5	64.07	64.19	64.49	63.43	61.64	59.61	57.48	55.63	54.48	0	106.42
5000	55.91	58.85	60.81	61.93	62.97	64.2	65.58	66.1	65.44	65.46	65.59	66.01	66.26	64.94	65.05	65.09	63.81	62.08	60.06	57.95	56.11	55	0	107.02
6300	56.32	59.58	61.86	63.15	64.03	65.35	67.06	67.65	66.96	66.7	66.35	67.01	67.61	65.85	65.92	66.18	64.68	62.78	61	59.06	57.06	55.59	0	108.2
8000	56.96	60.66	62.93	64.15	65.04	66.37	68.13	68.7	68.18	67.9	67.76	68.29	66.64	66.92	67.28	67.4	65.75	64.22	62.51	60.53	58.58	57.21	0	109.36
10000	56.42	59.04	61.51	63.64	65.21	66.24	66.99	67.6	67.02	66.8	66.86	66.25	67.41	65.63	66.51	67.43	65.74	63.48	61.81	59.9	57.64	55.88	0	108.44
OASPL	74.34	76.44	77.69	78.52	79.09	79.68	80.36	80.83	81.13	81.45	81.86	82.34	82.89	83.58	83.84	83.63	83.12	82.44	81.65	81.14	80.85	80.5	0	124.25

NASA Lewis Allison AST Jet Noise Test 1996

rdg	295
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	BASE
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	574.79
m01	0.19772
pamb	14.247
tamb	500.519
rhumid	68.69
winds1	0
nprc	1.169
nprb	1.209
ptc	16.6547
ptb	17.2246
wactc	1.552
wactb	9.833
ttc	1099.77
ttb	496.064
ptmix	17.1469
ttmix	580.106
mixpnd	0.486756
grsvixp	6543.96
badchan	[04,23,24,25,26]
bkgnd	282
escdate	25.Nov.96
esctime	21:46:47
DADSdate	97.08.20
DADStime	21:46.47
btchdate	25.Nov.96
btchtime	21:46.47

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 14:53:30 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	36.93	40.17	40.73	41.08	41.53	41.86	44.6	43.99	42.51	44.8	44.1	43.67	44.65	47.62	46.15	45.88	44.29	43.61	43.07	42.46	41.32	39.48	0	108.45
100	37.25	37.77	41.15	42.05	42.75	42.58	44.07	44.54	43.86	43.04	42.41	44.53	45.01	45.56	45.44	44.8	46.06	45	43.82	42.8	41.42	40.43	0	108.49
130	37.97	38.82	39.48	41.56	42.09	42.08	43.33	43.89	43.61	44.35	43.97	44.15	44.9	46.76	46.68	46.11	45.25	44.74	44.56	45.36	44.5	42.82	0	109.24
160	36.5	39.33	40.7	41.76	44.35	43.8	44.59	43.93	44.27	45.16	44.93	45.28	46.17	45.71	45.36	44.99	45.54	45.01	44.37	43.39	42.15	41.3	0	109.01
200	37.95	39.94	43.2	45.32	47.07	46.85	48.31	44.85	46.28	46.98	47.29	48.92	48.49	49.29	50.36	49.71	48.63	48.67	46.69	45.08	43.73	42.22	0	111.94
250	42.96	45.73	47.54	48.16	47.96	47.99	47.95	48.59	49.97	50.17	51.19	51.57	52.17	52.18	52.36	51.71	51.3	49.64	47.38	45.59	43.07	39.69	0	114.06
320	40.94	42.97	44.42	45.37	46.22	47.25	47.86	47.91	47.99	48.46	48.47	49.1	49.56	49.74	50.18	49.48	48.97	47.19	44.85	41.74	39.06	34.97	0	111.62
400	40.86	44.14	45.66	46.42	47.21	47.95	48.47	48.79	49.42	49.98	50.58	50.95	51.02	51.34	51.13	50.45	48.58	46.72	44.04	41.78	38.74	34.99	0	112.78
500	40.89	43.82	45.5	46.46	47.02	47.51	48.1	48.87	49.51	50.24	50.88	51.34	51.67	51.67	51.23	50.32	48.86	46.54	44.03	40.89	37.82	33.84	0	112.88
630	39.28	42.36	44.11	45.08	45.9	46.56	47	48.37	48.64	49.29	49.6	49.71	49.86	50.15	50.02	48.74	46.94	44.78	41.67	38.92	35.88	31.72	0	111.48
800	37.29	39.86	41.51	42.7	43.45	44.8	45.76	47.6	48.13	48.23	48.63	48.17	48.07	50.43	49	46.13	44.03	41.87	39.13	35.88	32	27.37	0	110.06
1000	36.24	38.52	40.02	41.09	42.11	43.09	43.89	46.47	47.07	47.39	47.28	46.87	46.42	45.96	44.55	42.81	40.62	38.05	35.2	32.04	28.48	23.88	0	107.85
1300	34.24	36.59	38.07	39.29	40.3	41.36	42.1	44.38	44.52	44.5	44.22	43.72	43.25	42.92	42.22	40.83	38.85	36.16	33.09	29.83	25.67	20.78	0	105.34
1600	31.9	34.71	36.22	37.19	38.29	39.47	40.46	42.52	42.63	42.46	42.3	42.14	41.81	41.21	40.21	39.32	37.86	35.01	31.55	27.8	23.42	17.29	0	103.56
2000	29.56	32.15	33.86	35.06	36.14	37.31	38.44	40.62	40.82	40.72	40.55	40.58	40.03	39.09	38.31	37.21	34.83	31.55	28.05	24.07	19.01	-3.02	0	101.56
2500	27.3	30.09	31.85	33.4	34.72	36.32	37.69	39	38.96	38.75	38.69	38.7	38.27	37.58	36.64	35.66	33.63	29.82	25.75	21.36	8.89	0	0	99.91
3200	23.78	26.99	29.26	31.13	32.76	34.42	35.96	38.27	38.22	37.92	37.57	37.45	37.09	35.74	34.62	33.36	30.83	27.32	22.85	11.61	0	0	0	98.43
4000	15.06	22.6	25.7	27.65	29.26	31.06	32.87	36.32	36.05	35.68	35.37	35.45	35.12	32.5	31.6	30.54	27.69	23.9	14.41	0	0	0	0	95.89
5000	0	0	17.03	21.91	24.51	26.7	28.88	33.61	32.94	32.87	32.53	32.32	31.98	29.63	28.38	26.6	22.6	9.95	0	0	0	0	0	92.56
6300	0	0	0	0	0	12.41	19.22	29.57	29.05	28.6	27.96	27.92	27.77	24.16	21.99	18.17	0	0	0	0	0	0	0	87.55
8000	0	0	0	0	0	0	0	20.83	19.9	18.6	17.25	16.96	14.56	0	0	0	0	0	0	0	0	0	0	77.09
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	50.3	52.89	54.61	55.63	56.43	56.88	57.71	58.26	58.71	59.16	59.45	59.79	60	60.46	60.24	59.34	58.32	58.89	54.97	53.38	51.6	49.53	0	122.17
PNL	55.52	58.58	60.53	61.71	62.72	63.57	64.57	65.19	65.42	65.77	65.98	66.23	66.3	66.13	65.59	64.54	62.77	60.36	57.29	54.19	50.59	46.02	0	65.93

NASA Lewis Allison AST Jet Noise Test 1996

rdg	294
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	826.54
m01	0.19746
pamb	14.2452
tamb	500.693
rhumid	86.11
winds1	0
nprc	1.368
nprb	1.434
ptc	19.7723
ptb	20.4276
wactc	2.631
wactb	13.892
ttc	1164.39
ttb	497.39
ptmix	20.3233
ttmix	603.596
mixpnd	0.686192
gravixp	13656.9
badchan	(04,26)
bkgnd	282
escdate	25.Nov.96
esctime	21:37:45
DADSdate	97.06.18
DADStime	21:37:45
btchdate	25.Nov.96
btchtime	21:37:45

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 17:06:37 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	69.39	71.03	72.08	72.71	73.07	73.26	73.37	73.47	73.61	73.85	74.21	74.73
100	71.45	72.47	73.13	73.56	73.84	74.04	74.23	74.46	74.76	75.16	75.88	76.34
130	71.97	72.37	72.6	72.73	72.82	72.92	73.08	73.32	73.67	74.16	74.79	75.59
160	73.88	74.63	75.07	75.29	75.39	75.47	75.58	75.79	76.11	76.58	77.21	78.02
200	73.02	74.03	74.73	75.23	75.6	75.92	76.24	76.59	77.02	77.56	78.21	78.96
250	73.58	74.18	74.55	74.8	75.05	75.37	75.8	76.34	77.01	77.82	78.75	79.81
320	73.96	74.99	75.64	76.06	76.33	76.53	76.75	77.08	77.56	78.21	79.06	80.12
400	73.1	74.46	75.18	75.56	75.92	76.39	76.92	77.43	77.95	78.53	79.22	80.11
500	72.62	73.68	74.58	75.06	75.56	75.96	76.1	76.53	77.08	77.26	77.82	79.01
630	72.03	73.12	73.93	74.58	75.12	75.51	75.65	75.86	76.36	76.86	76.96	77.59
800	72.03	72.94	73.69	74.17	74.41	74.62	75.04	75.62	76.01	76.31	77.06	77.04
1000	71.47	71.82	72.24	73.02	73.44	73.69	74.24	74.76	75.44	76	76.42	76.78
1300	70.98	71.86	72.49	72.96	73.34	73.53	73.58	73.88	74.42	74.91	75.24	75.58
1600	70.83	71.75	72.15	72.38	72.63	72.86	72.91	72.91	73.12	73.43	73.79	74.53
2000	70.43	71.18	71.8	72.15	72.55	72.94	73.04	72.87	72.97	73.32	73.87	74.13
2500	69.71	70.6	71.43	72.06	72.31	72.28	72.29	72.35	72.41	72.71	73.27	73.36
3200	68.46	70.36	71.48	72.25	72.77	72.74	72.67	72.71	72.65	72.75	73.22	73.5
4000	68.68	69.87	71.14	71.75	72.29	72.65	72.82	72.58	72.26	72.26	73.03	73.23
5000	67.72	69.23	70.61	71.1	71.51	72.2	72.78	72.64	72.03	71.91	72.67	72.97
6300	67.49	69.12	70.95	71.69	72.2	72.86	73.49	73.56	72.71	72.17	72.66	72.83
8000	67.26	69.42	71.08	71.84	72.56	73.47	74.13	74.01	72.97	72.31	72.96	73.05
10000	66.05	67.48	69.13	70.69	72.12	73.02	72.95	72.9	71.26	70.06	71.74	70.71
OASPL	84.73	85.73	86.47	86.96	87.35	87.66	87.93	88.18	88.42	88.78	89.41	90.06

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.41	76.25	77.24	78.37	79.85	81.06	82.59	84.13	85.62	87.16	89.09	121.3
100	77.13	78.04	79.05	80.15	81.35	82.63	83.98	85.26	86.41	87.47	88.7	122.36
130	76.53	77.62	78.84	80.17	81.62	83.16	84.77	86.29	87.59	88.71	89.85	122.83
160	78.99	80.08	81.24	82.42	83.57	84.67	85.69	86.51	87.06	87.38	87.67	123.69
200	79.84	80.73	81.63	82.49	83.3	84.06	84.77	85.33	85.68	85.88	86.07	123.34
250	80.91	81.98	82.96	83.85	84.57	85.13	85.53	85.68	85.54	85.15	84.66	123.9
320	81.18	82.2	83.18	84.03	84.66	84.98	84.96	84.68	84.17	83.47	82.67	123.81
400	80.5	80.9	81.67	82.51	83.08	83.41	83.38	82.9	81.96	80.77	79.54	122.72
500	80.05	81.1	81.5	81.43	81.56	81.71	81.22	80.45	79.57	78.48	77.05	121.61
630	78.73	79.65	79.62	79.4	79.49	79.56	79.2	78.22	76.92	75.8	74.62	120.18
800	77.93	79.26	79	78.38	78.18	77.84	76.97	75.82	74.56	73.28	72.05	119.35
1000	77.02	77.1	77.3	77.1	76.52	75.84	74.99	73.74	72.14	70.75	69.76	118.16
1300	75.89	76.23	75.87	75.35	75.22	75.39	75.15	73.79	71.85	70.23	69.25	117.32
1600	74.65	74.57	74.56	74.16	73.5	72.86	72.06	70.93	69.57	68.32	67.56	116.05
2000	74.1	74.17	74.2	73.71	72.9	72.08	71.28	70.03	68.44	67.18	66.67	115.75
2500	73.39	73.44	73.36	72.69	71.76	71.03	70.07	68.72	67.26	66.15	65.69	115.07
3200	73.13	72.96	72.98	72.04	70.8	70.2	69.26	67.84	66.31	65.18	64.79	115
4000	72.36	71.96	72.19	71.47	70.02	68.99	67.91	66.5	65	64.04	63.88	114.54
5000	72.1	71.83	71.67	70.71	69.15	68.05	66.85	65.35	63.89	63.01	62.93	114.12
6300	72.27	71.76	71.51	70.26	68.61	67.5	66.16	64.6	63.22	62.44	62.28	114.4
8000	72.1	71.95	71.86	70.54	68.81	67.64	65.99	64.17	62.7	61.94	61.91	114.69
10000	69.78	70.44	70.81	69.83	68	66.06	64.21	62.32	60.56	59.48	59.4	113.34
OASPL	90.7	91.46	92.06	92.61	93.18	93.78	94.3	94.75	95.14	95.57	96.24	133.71

NASA Lewis Allison AST Jet Noise Test 1996

rdg	294
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	826.54
m01	0.19746
pamb	14.2452
tamb	500.693
rhumid	88.11
winds1	0
nprc	1.388
nprb	1.434
ptc	19.7723
ptb	20.4278
wactc	2.631
wactb	13.892
ttc	1164.39
ttb	497.39
ptmix	20.3233
ttmix	603.598
mixpnd	0.686192
grsvisp	13656.9
badchan	{04,26}
bkgnd	282
esodate	25.Nov.96
esotime	21:37:45
DADSdate	97.08.18
DADStime	21:37:45
btchdate	25.Nov.96
btchtime	21:37:45

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 17.08:48 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	47.8	51.58	51.88	51.89	51.97	52.05	54.58	53.43	51.78	54.69	54.46	54.47	54.65	54.98	55.32	58.44	58.3	58.19	57.95	57.63	57	56	54.7	121.1
100	48.94	49.42	51.9	52.1	52.18	51.47	53.2	54.39	53.77	53.25	53.08	55.43	55.87	56.15	56.23	56.33	59.07	59.61	60.08	60.27	59.98	59.18	57.8	122.69
130	51.21	51.84	51.89	54.11	54.24	54.13	55.52	53.2	53.34	55.39	55.37	55.4	55.89	56.06	58.24	58.39	58.42	58.65	58.83	60.34	59.64	58.3	56.13	122.57
160	51.48	53.49	53.93	54.06	55.43	55.36	56.13	55.61	55.37	56.67	56.94	57.4	59.07	59.5	59.84	60.2	60.92	60.52	59.85	58.59	57.07	56.12	53.57	123.07
200	51.06	51.68	53.06	53.33	54.36	54.48	55.59	56.32	56.2	57	57.23	58.25	58.36	58.74	59.82	59.95	59.84	60.74	60.15	59.15	57.62	58.02	52.98	122.99
250	51.62	53.08	54.53	55.51	55.73	56.2	56.43	55.91	57.18	57.86	59.1	59.7	60.71	61.09	62.03	62.09	62.16	61.24	59.99	58.71	56.44	53.25	49.52	123.87
320	50.13	51	51.79	52.91	54.17	55.18	55.65	56.46	56.8	57.49	57.3	58.26	58.77	59.05	59.62	59.78	59.66	58.83	57.87	55.85	53.38	50.18	48.11	121.82
400	49.84	51.97	53.22	53.75	54.21	54.66	54.91	56.52	57.02	57.37	58.04	58.59	58.38	58.59	58.4	58.55	58.12	57.48	55.63	53.8	50.73	47.01	42.12	120.98
500	48.8	50.1	51.27	52.51	53.33	53.82	54.08	55.27	55.74	55.82	56.16	56.78	57.58	58.14	57.48	56.1	55.37	54.36	52.54	49.58	46.69	43.41	38.59	119.18
630	47.52	49.15	50.52	51.23	51.93	52.49	52.89	54.23	54.53	54.78	54.83	54.98	55.32	55.78	55.35	54.12	53.06	51.89	49.84	47.31	43.8	39.53	33.97	117.37
800	47.14	48.28	49.19	50.22	50.78	51.28	51.72	53.53	53.95	54.08	54.49	54.18	54.54	55	54.15	52.68	51.15	49.56	47.48	44.42	40.3	35.64	29.76	116.24
1000	45.54	47.03	48.05	48.98	49.77	50.28	50.5	52.22	52.61	52.89	52.85	52.87	52.53	52.13	51.5	50.47	48.91	46.99	45.03	42.08	37.99	32.98	26.88	114.46
1300	44.63	46.08	47.31	48.13	48.76	49.17	49.22	50.84	51.28	51.63	51.71	51.67	51.44	50.88	49.74	48.17	46.7	45.19	42.43	38.83	34.76	29.88	23.59	113.07
1600	43.53	45.14	46.24	46.92	47.85	48.36	48.67	49.3	49.5	49.55	49.86	50.01	49.6	48.99	48.2	46.9	45.11	42.84	40.3	36.92	32.39	27.06	20.26	111.5
2000	41.8	43.42	44.76	45.95	46.84	46.86	46.97	48.66	48.61	48.82	49.01	48.79	48.26	47.63	46.8	45.17	42.99	40.82	38.04	34.21	29.48	23.72	10.98	110.25
2500	39.33	41.23	42.95	44.19	45.21	45.69	45.91	47.06	47.07	47.16	47.42	47.17	46.63	45.95	44.91	43.05	40.65	38.21	34.99	30.94	25.69	18.84	0	108.56
3200	36.29	38.3	40.44	41.88	42.9	43.47	43.76	45.97	45.85	45.84	45.99	45.81	44.53	43.37	42.61	40.58	37.65	34.98	31.57	26.95	20.48	0	0	106.64
4000	30.94	33.6	35.88	37.18	38.24	39.35	40.27	43.6	43.21	43.02	43.54	43.16	41.7	40.35	39.27	37.09	33.88	30.41	26.43	20.31	0	0	0	103.5
5000	22.62	26.64	29.65	31.39	32.78	34.13	35.28	40.22	39.6	39.21	38.5	39.08	37.37	35.87	34.48	31.6	27.78	23.67	14.58	0	0	0	0	99.16
6300	0	6.98	19.17	22.39	24.51	26.42	27.72	35.58	34.79	34.08	34.15	33.68	32.03	30.26	28.35	24.53	17.04	0	0	0	0	0	0	93.54
8000	0	0	0	0	0	0	0	27.89	26.72	25.47	25.49	24.34	21.09	17.6	8.63	0	0	0	0	0	0	0	0	84.16
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.71	62.19	63.25	64.03	64.68	64.99	65.73	66.21	66.41	67.05	67.38	67.93	68.41	68.71	69.1	69.18	69.28	68.99	68.32	67.66	66.41	64.93	62.77	132.27
PNL	67.04	68.72	70.1	71.16	71.92	72.32	72.78	73.1	73.17	73.52	73.9	74.23	74.09	74.03	74.02	73.49	72.87	71.74	70.16	68.27	65.48	62.49	58.41	75.31

NASA Lewis Allison AST Jet Noise Test 1996

rdg	293
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nalrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	922.14
m01	0.19815
pamb	14.2432
tamb	500.81
rhumid	88.18
winds1	0
nprc	1.541
nprb	1.809
ptc	21.9488
ptb	22.9173
wactc	2.847
wactb	16.624
ttc	1303.12
ttb	496.616
ptmix	22.7757
ttmix	614.541
mixpnd	0.758713
grsvup	17955
badchan	(04,26)
bkgnd	282
escdate	25.Nov.96
esctime	21:30:24
DADSdate	97.08.18
DADStime	21:30:24
blchdate	25.Nov.96
blchtime	21:30:24

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 17:09:18 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.44	74.76	75.63	76.2	76.58	76.87	77.14	77.45	77.83	78.33	78.98	79.79
100	76.07	77.65	78.53	78.95	79.1	79.11	79.11	79.16	79.34	79.69	80.26	81.07
130	77.6	79.2	79.88	79.98	79.73	79.33	78.94	78.67	78.63	78.91	79.56	80.6
160	80.09	80.66	80.96	81.06	81.08	81.09	81.14	81.27	81.52	81.91	82.47	83.22
200	79.62	80.58	81.17	81.52	81.73	81.89	82.05	82.27	82.6	83.06	83.67	84.46
250	78.56	79.31	79.88	80.34	80.78	81.23	81.74	82.33	83.03	83.85	84.81	85.9
320	79.16	79.87	80.38	80.78	81.12	81.47	81.86	82.32	82.89	83.57	84.4	85.41
400	78.06	78.7	79.3	79.89	80.47	81.06	81.68	82.33	83.11	84.06	85.06	86.13
500	78.32	78.92	79.37	79.77	80.16	80.58	81.04	81.48	81.95	82.59	83.5	84.65
630	77.18	77.8	78.35	78.84	79.31	79.78	80.28	80.8	81.32	81.91	82.63	83.48
800	76.94	77.52	78.03	78.47	78.87	79.24	79.59	79.98	80.63	81.36	82.06	82.81
1000	77.51	78.06	78.3	78.42	78.56	78.85	79.35	79.76	80.25	80.9	81.5	81.98
1300	78.17	76.74	77.16	77.62	77.87	78.31	78.99	79.59	80	80.31	80.58	81.04
1600	75.5	75.7	76.31	77.02	77.45	77.73	77.9	78.2	78.49	78.98	79.6	80.25
2000	74.85	75.58	76.17	76.62	77.16	77.36	77.77	78.02	78.36	78.78	79.01	79.4
2500	74.48	75.02	75.81	76.59	76.79	76.8	77.19	77.81	77.84	77.93	77.93	78.15
3200	73.88	74.41	75.45	76.43	76.73	76.69	77.08	77.31	77.56	77.66	77.46	77.67
4000	73.07	73.5	74.87	76.1	76.42	76.42	77.09	76.92	76.92	77.15	77.13	77.33
5000	71.97	72.69	73.96	74.95	75.04	75.37	75.93	76.06	76.18	76.2	76.24	76.48
6300	70.98	71.74	73.44	74.8	74.75	75.18	76.11	76.27	76.31	76.18	75.75	75.87
8000	70.19	71.22	73.09	75.06	75.1	75.43	76.41	76.4	76.42	76.24	76.06	75.96
10000	68.64	68.47	70.46	73.72	74.1	74.2	74.15	74.18	74.2	73.78	73.64	73.21
OASPL	89.93	90.7	91.33	91.85	92.11	92.35	92.71	93.04	93.46	93.98	94.61	95.41

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.76	81.87	83.1	84.45	85.89	87.43	89.05	90.84	92.15	93.68	95.58	127.32
100	82.11	83.34	84.74	86.26	87.88	89.58	91.32	92.94	94.34	95.56	96.81	129.28
130	81.96	83.56	85.33	87.21	89.14	91.09	93.02	94.74	96.13	97.23	98.2	130.64
160	84.15	85.26	86.53	87.93	89.45	91.08	92.73	94.22	95.34	96.06	96.45	130.53
200	85.41	86.5	87.71	89.04	90.45	91.96	93.54	94.91	95.86	96.32	96.35	131.25
250	87.06	88.19	89.26	90.35	91.58	93.01	94.65	96.12	97.08	97.33	96.72	132.27
320	86.66	87.92	88.8	89.65	90.62	91.64	92.69	93.63	94.19	94.17	93.36	130.66
400	87.22	88.24	89.07	89.7	90.14	90.43	90.64	90.85	90.99	90.95	90.73	129.81
500	85.66	86.73	87.95	88.76	88.91	88.79	88.84	88.75	88.34	87.98	87.59	128.12
630	84.26	85.16	86.26	86.84	86.93	86.98	86.52	85.84	85.08	84.2	83.4	126.37
800	83.68	84.45	85.01	84.9	84.67	84.63	84.26	83.38	82.09	80.71	79.5	125.01
1000	82.49	83.04	83.45	83.16	82.71	82.55	81.65	80.66	79.6	78.14	76.63	123.85
1300	82.06	82.46	82.28	82	81.55	80.85	79.97	78.83	77.38	75.99	75.02	122.93
1600	80.52	80.89	80.91	80.31	79.52	78.65	77.93	76.82	75.62	74.35	73.39	121.6
2000	79.77	79.89	80.1	79.3	78.01	77.42	76.84	75.91	74.66	73.29	72.32	120.97
2500	78.62	79.03	78.75	77.99	77.23	76.55	75.68	74.53	73.28	72.21	71.56	120.13
3200	78.02	78.17	77.89	77.13	76.3	75.53	74.5	73.31	72.14	71.29	70.88	119.62
4000	77.05	76.84	76.36	75.92	75.22	74.36	73.27	71.91	70.81	69.89	69.8	118.93
5000	76.2	75.84	75.52	74.77	73.79	72.91	71.83	70.87	69.86	69.05	68.85	117.93
6300	75.92	75.45	74.87	73.86	72.61	71.58	70.65	69.61	68.67	68.21	68.07	117.59
8000	75.79	75.27	74.51	73.2	71.82	70.87	69.9	68.87	67.98	67.52	67.41	117.58
10000	73.37	73.23	72.77	71.8	69.96	68.55	67.49	66.33	65.23	64.74	64.87	115.52
OASPL	96.32	97.28	98.17	99	99.86	100.9	102.1	103.28	104.18	104.77	105.17	140.58

NASA Lewis Allison AST Jet Noise Test 1996

rdg 293
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbid NATR full wedge
ngbid JER w/ external supplement
mixbid BASE
nozbid BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 922.14
m01 0.19815
pamb 14.2432
tamb 500.61
rhumid 88.16
winds1 0
nprc 1.541
nprb 1.609
ptc 21.9488
ptb 22.9173
wactc 2.847
wactb 16.624
ttc 1303.12
ttb 496.616
ptmix 22.7757
ttmix 614.541
mixpnd 0.758713
grsvixp 17955
badchan (04,26)
bkgnd 282
escdate 25.Nov.96
esctime 21:30:24
DADSdate 97.08.18
DADStime 21:30:24
btchdate 25.Nov.96
btchtime 21:30:24
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 17:09:29 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1506.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	52.11	55.76	56.27	56.56	56.81	56.97	59.45	57.4	55.97	59.55	59.51	59.58	59.76	60.04	60.42	63.69	63.93	64.35	64.77	65.15	65.12	64.58	63.53	127.78
100	54.39	55.48	58.72	58.93	58.76	57.77	59.02	59.09	58.33	57.73	57.68	60.38	61.23	61.96	62.5	63.08	66.37	67.29	66.05	66.43	66.24	67.42	65.92	130.26
130	57.72	58.6	58.73	60.29	60.05	59.59	61.05	58.55	56.31	59.92	59.9	60.16	60.84	63.39	64.19	64.89	65.43	66.13	66.71	66.28	67.97	66.88	64.83	130
160	57.06	59.54	60.22	60.48	61.6	61.42	61.95	61.09	60.96	62.25	62.5	62.87	64.09	64.35	64.89	65.51	67.1	67.43	67.68	67.45	66.79	66.49	64.1	130.34
200	56.85	57.81	58.96	59.23	60.26	60.41	61.55	62	61.6	62.63	62.9	64.04	64.35	64.93	66.54	67.04	67.49	68.96	69.44	69.55	68.88	67.66	64.35	131.57
250	56.93	58.08	59.33	60.39	60.68	61.3	61.6	61.91	63.19	63.61	64.92	65.42	66.59	67.05	67.84	68.02	66.59	66.5	68.27	66.06	66.86	64.34	60.55	131.04
320	55.59	56.15	56.84	57.73	58.66	59.9	60.44	61.71	62.01	62.75	62.78	63.76	64.87	65.67	66.22	66.1	66.18	65.79	65.55	64.33	62.67	60.46	56.95	128.55
400	55.05	56.49	57.51	58.27	58.86	59.32	59.9	61.42	62.17	62.87	63.7	64.44	64.66	65.12	65.47	65.87	65.13	64.24	63.11	61.97	59.81	56.9	53.23	127.54
500	53.87	54.88	55.69	56.62	57.32	57.96	58.67	60.23	60.63	61.18	61.75	62.33	62.96	63.57	64.22	63.99	63.1	61.61	59.93	57.6	55.16	51.83	47.36	125.36
630	52.77	54.02	55.16	55.8	56.52	57.14	57.44	59.15	59.55	60.12	60.64	61.2	61.55	61.6	61.6	60.79	59.69	59.15	57.38	54.9	51.34	47	41.58	123.36
800	52.85	53.99	54.69	55.31	55.75	58.2	56.86	57.88	58.48	58.83	59.38	59.66	59.84	60.01	60.07	58.98	57.35	55.92	53.93	51.11	47.41	42.93	36.74	121.64
1000	50.7	52.13	53.07	53.78	54.3	54.93	55.84	57.22	57.49	57.88	57.93	58.02	58.13	57.87	57.52	56.66	55.1	53.31	50.9	47.67	43.97	38.93	32.7	119.85
1300	49.61	50.74	51.68	52.74	53.47	53.97	54.24	56.54	56.87	57.02	57.11	57.07	57.65	57.53	56.41	54.95	53.42	51.06	48.39	45.11	41.1	36.19	29.53	118.79
1600	48.07	49.3	50.52	51.6	52.37	52.87	53.37	54.6	54.82	55.18	55.34	55.61	55.42	54.97	54.24	52.56	50.37	48.44	45.81	42.56	36.46	32.69	25.77	116.87
2000	46.3	47.9	49.36	50.57	51.14	51.46	51.95	53.71	54.03	54.14	54.08	53.97	53.77	53.23	52.35	50.55	48.37	46.26	43.52	39.91	35.46	29.97	22.46	115.41
2500	44	45.37	47.07	48.62	49.39	49.69	50.28	52.35	52.52	52.44	52.01	51.8	51.65	51.4	50.19	48.32	46.12	43.82	40.52	36.67	31.66	25.81	13.43	113.47
3200	40.59	42.04	44.15	46.12	46.94	47.12	48.1	50.56	50.7	50.59	50.1	49.77	49.41	48.57	47.37	45.45	43.09	40.32	36.9	32.48	26.98	18.8	0	111.15
4000	35.3	37.21	39.57	41.4	42.13	42.86	43.53	47.99	47.88	47.94	47.51	47.15	45.98	44.67	43.3	41.27	38.54	35.46	31.55	26.69	18.94	0	0	107.74
5000	27.36	29.71	32.64	34.66	35.72	36.7	37.83	43.66	43.71	43.42	43.01	42.63	41.56	40.03	38.21	35.82	32.36	28.63	23.58	12.49	0	0	0	102.9
6300	0.52	16.16	22.41	26.27	27.32	28.76	30.28	38.41	38.45	38.12	37.29	36.66	35.65	33.76	31.42	28.13	23.33	15.23	0	0	0	0	0	96.88
8000	0	0	0	0	0	0	-1.94	30.51	30.47	29.83	28.8	27.53	25.87	23.15	18.56	0	0	0	0	0	0	0	0	87.77
10000	0	0	0	0	0	0	0	0	1.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.43
OASPL	66.21	67.58	68.63	69.35	69.9	70.13	70.96	71.38	71.64	72.38	72.82	73.46	74.12	74.67	75.27	75.57	76.02	76.26	76.35	76.37	75.67	74.49	72.15	139.41
PNL	72.13	73.62	74.98	76.06	76.69	77.06	77.75	78.25	78.47	78.91	79.27	79.72	79.96	80.16	80.21	79.97	79.86	79.1	78.35	77.57	76.05	73.92	70.04	82.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg	292
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	990.94
m01	0.19772
pamb	14.242
tamb	501.082
rhumid	88.58
winds1	0
nprc	1.742
nprb	1.823
ptc	24.8096
ptb	25.9632
wactc	3.418
wactb	18.958
ttc	1382.29
ttb	496.691
ptmix	25.7869
ttmix	631.969
mixpnd	0.803999
gravixp	22173.3
badchan	(04,26)
bkgnd	282
eacdate	25.Nov.96
eactime	21:26:22
DADSdate	97.08.16
DADStime	21:26:22
btchdate	25.Nov.96
btchtime	21:26:22

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:15:17 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	77.29	77.7	79.2	80.84	81.91	82.04	81.56	80.85	80.25	80	80.33	81.32
100	80.63	81.69	82.27	82.56	82.88	82.73	82.79	82.93	83.19	83.63	84.26	85.12
130	81.58	82.82	83.22	83.47	83.4	83.08	82.64	82.33	82.29	82.63	83.44	84.73
160	84.73	86.11	86.58	86.5	86.12	85.62	85.15	84.84	84.79	85.08	85.77	86.89
200	84.29	85.34	86	86.4	86.63	86.78	86.91	87.05	87.28	87.55	87.98	88.59
250	83.52	84.42	84.81	84.98	85.1	86.32	85.87	86.17	86.85	87.74	88.83	90.12
320	84.66	85.23	85.49	85.59	85.63	85.7	85.88	86.21	86.72	87.45	88.41	89.61
400	84.39	84.86	84.89	85.15	85.49	85.94	86.5	87.17	87.92	88.76	89.68	90.85
500	84.49	84.91	85.11	85.22	85.33	85.52	85.83	86.27	86.85	87.57	88.45	89.55
630	82.75	83.26	83.58	83.8	84.01	84.27	84.64	85.14	85.82	86.68	87.75	88.99
800	82.31	82.54	82.81	83.12	83.5	83.98	84.49	85.11	85.78	86.51	87.3	88.18
1000	81.65	82.01	82.33	82.65	83.02	83.43	83.91	84.42	85.02	85.7	86.45	87.32
1300	81.55	81.94	82.32	82.61	82.81	83.02	83.38	83.91	84.55	85.34	86.57	87.4
1600	81.29	81.5	81.7	82.06	82.46	82.79	83.13	83.51	84.03	84.64	85.09	85.74
2000	80.92	81.05	81.29	81.75	81.9	82.26	82.66	82.9	83.17	83.48	83.93	84.52
2500	80.44	80.74	81.12	81.48	81.76	82	82.29	82.48	82.62	82.83	83.14	83.46
3200	80.33	80.58	80.92	81.29	81.58	81.93	82.4	82.51	82.5	82.63	82.57	82.85
4000	79.25	79.84	80.32	80.86	80.97	81.37	82.22	82.02	82.15	82.34	82.24	82.41
5000	77.93	78.62	79.22	79.75	79.51	80.3	81.26	81.23	81.08	81.21	81.35	81.33
6300	76.72	77.52	78.48	78.96	79.16	79.84	80.91	81.26	81.04	80.9	80.5	80.6
8000	75.64	76.66	77.78	78.72	79.02	79.76	81.18	81.32	80.91	80.73	80.63	80.63
10000	73.83	74.18	75.31	76.85	77.82	78.5	78.94	79.05	78.74	78.5	78.4	77.51
OASPL	95.23	95.86	96.29	96.59	96.76	96.96	97.26	97.53	97.91	98.46	99.18	100.08

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	82.81	84.6	86.54	88.5	90.37	92.08	93.59	94.9	96.09	97.33	99.06	131.21
100	86.19	87.46	88.9	90.51	92.26	94.15	96.13	98.03	99.89	101.15	102.61	134.22
130	86.4	88.34	90.43	92.59	94.73	96.78	98.68	100.32	101.61	102.62	103.55	135.98
160	88.35	90.08	91.91	93.83	95.74	97.62	99.39	100.86	101.86	102.36	102.44	136.58
200	89.46	90.73	92.4	94.49	96.73	98.75	100.3	101.33	101.9	102.16	102.36	137.13
250	91.57	93.13	94.76	96.48	98.25	100.03	101.7	102.73	103.29	103.64	103.46	138.45
320	91	92.53	94.16	95.62	97.46	99.01	100.42	101.45	101.93	101.79	101.01	137.33
400	91.68	92.99	94.24	95.45	96.78	98.17	99.56	100.68	101.3	101.36	100.81	136.95
500	90.98	92.57	94.2	94.94	95.68	97.27	98.94	100.29	101.24	101.68	101.57	136.56
630	90.24	91.42	92.48	93.21	93.86	94.83	96.14	97.42	98.34	98.79	98.73	134.34
800	89.17	90.15	91.08	91.89	92.08	92.64	93.5	94.6	95.6	96.17	96.34	132.5
1000	88.06	88.79	89.52	89.91	90.08	90.34	90.77	91.32	91.87	92.27	92.48	130.48
1300	87.71	87.83	88.26	88.49	88.09	87.45	86.98	86.91	87.07	87.14	87.27	128.65
1600	86.36	86.62	86.74	86.47	85.95	85.44	84.82	84	83.08	82.35	82.15	127.4
2000	84.86	85.14	85.24	85.06	84.43	83.47	82.48	81.34	80.09	79.04	78.55	126.17
2500	83.85	84.2	84.01	83.65	83.11	82.19	81.36	80.27	78.79	77.55	77.07	125.37
3200	83.03	83.27	82.95	82.49	82.02	81.18	80.11	78.91	77.7	76.74	76.27	124.85
4000	82.27	82.12	81.87	81.41	80.7	79.77	78.72	77.46	76.17	75.34	75.17	124.15
5000	81.04	80.95	80.74	80.14	79.24	78.25	77.26	76.11	74.99	74.37	74.3	123.03
6300	80.28	80.13	79.72	78.92	77.94	76.9	75.93	74.94	73.97	73.31	73.06	122.39
8000	78.76	79.6	79.26	78.32	77.2	76.18	75.19	74.07	72.98	72.31	72.06	122.15
10000	76.86	77.19	77.22	76.58	75.2	73.34	72.23	71.02	69.63	69	69.14	119.95
OASPL	101.1	102.29	103.59	104.86	106.23	107.77	109.29	110.5	111.32	111.8	112.02	146.85

NASA Lewis Allison AST Jet Noise Test 1996

rdg	292
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	990.94
m01	0.19772
pamb	14.242
tamb	501.062
rhumid	88.58
wnds1	0
nprc	1.742
nprb	1.823
ptc	24.8096
ptb	25.9632
wactc	3.418
wactb	16.958
ttc	1382.29
ttb	496.691
ptmix	25.7869
ttmix	631.969
mixpnd	0.803999
grsvixp	22173.3
badchan	(04,26)
bkgnd	282
eacdate	25.Nov.96
eactime	21:26:22
DADSdate	97.08.18
DADStime	21:26:22
blchdate	25.Nov.96
blchtime	21:26:22

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:15:26 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.43	60.52	60.92	60.96	60.93	60.87	63.15	60.81	58.39	62.61	62.66	63.04	63.62	64.32	65.08	66.64	69.03	69.53	69.98	70.35	70.33	69.82	68.82	132.73
100	58.54	59.54	62.15	62.54	62.52	61.5	62.73	62.86	62.21	61.74	61.74	64.26	65.1	65.67	66.53	67.28	71.48	72.59	73.41	73.77	73.53	72.66	71.15	135.33
130	61.92	63.3	63.7	65.36	64.79	63.9	65.05	62.22	61.98	63.43	63.66	64.32	65.47	66.55	69.83	70.98	71.86	72.77	73.39	74.98	74.51	73.22	70.93	136.19
160	62.09	64.55	65.09	65.24	66.52	66.36	66.81	64.66	64.22	65.85	66.13	66.68	68.34	68.97	70.13	71.5	73.61	74.52	75.02	74.74	73.83	73	70.38	136.69
200	61.93	62.98	64.18	64.1	64.71	64.63	65.43	66.78	66.44	66.84	66.97	68.14	68.58	69.33	71.14	72.08	73.12	75.21	75.7	75.61	74.75	73.72	70.79	137.28
250	61.8	62.64	63.78	64.66	64.7	65.23	65.54	65.74	67.05	67.53	68.75	69.45	70.93	71.88	73.3	74.22	75.48	75.94	75.95	75.55	73.96	71.32	67.62	137.49
320	61.72	62.34	62.89	63.46	64.31	64.95	65.36	65.59	66.07	66.94	67.24	68.47	69.67	70.59	71.77	72.46	73.29	73.65	74.17	73.63	72.34	69.97	66.6	135.83
400	61.27	62.46	63.17	63.6	63.92	64.16	64.61	66.26	66.97	67.62	68.4	68.97	69.27	70.37	71.1	71.69	71.77	72.61	72.86	72.9	71.92	69.74	66.1	135.2
500	59.86	60.62	61.17	61.75	62.1	62.46	63.04	65.01	65.49	66.11	66.73	67.46	68.45	69.44	70.17	69.97	69.85	69.71	69.94	69.52	68.61	66.46	62.6	132.83
630	58.3	59.24	60	60.45	61.14	61.78	62.23	63.49	64.02	64.82	65.57	66.32	66.99	67.49	68	67.85	67.33	66.95	66.4	65.98	64.64	62.19	58.03	130.28
800	57.1	58.11	58.87	59.59	60.17	60.75	61.37	63	63.66	64	64.63	65.15	65.71	65.99	66.12	65.76	64.79	63.87	63.16	62.12	60.48	58.01	53.57	128.13
1000	55.82	56.94	57.73	58.39	59.09	59.67	60.23	61.87	62.32	62.82	63.19	63.9	64.17	64.16	63.84	63.23	62.08	60.59	58.94	57.14	55.01	51.76	46.87	125.82
1300	55.26	56.29	57.17	58.16	58.75	59.1	59.47	60.85	61.45	62.21	63.1	63.38	63.19	62.46	62	61.14	59.49	57.41	55.1	52.38	49.1	44.59	38.72	124.35
1600	54.1	54.87	55.88	56.48	57.1	57.78	58.33	59.9	60.37	60.64	60.78	60.99	60.93	60.6	59.92	58.66	56.94	54.64	51.91	48.61	44.41	39.16	32.43	122.38
2000	52.33	53.42	54.43	55.31	56.04	56.54	56.99	58.6	58.81	58.93	59	59.21	59.02	58.51	57.66	56.46	54.55	52.06	49.22	45.54	40.64	35.13	27.83	120.59
2500	50.33	51.55	52.54	53.59	54.25	55	55.62	57.16	57.27	57.31	57.19	56.97	56.79	56.55	55.34	53.73	51.87	49.24	46.16	42.35	37.39	31.31	22.96	118.63
3200	46.94	48.34	49.67	50.8	51.54	52.22	53.16	55.78	55.66	55.6	55.3	55.13	54.55	53.77	52.57	50.92	48.74	45.66	42.35	37.94	32.55	25.76	8.44	116.34
4000	41.22	43.21	45	46.36	46.63	47.67	48.87	53.06	53.13	53.09	52.58	52.14	51.23	50.04	48.52	46.57	44.06	40.86	37.07	32.22	25.92	13.57	0	112.9
5000	33.46	35.8	37.61	39.16	40.09	41.61	43.01	48.87	48.54	48.46	48.14	47.44	46.26	45.02	43.29	40.83	37.72	33.92	29.38	23	3.7	0	0	107.89
6300	20.79	24.64	28.04	30.27	31.64	33.16	35.19	43.41	43.22	42.79	42.01	41.45	39.95	38.42	36.32	33.27	29.4	24.26	14.93	0	0	0	0	101.65
8000	0	0	0	0.67	10.94	15.34	18.96	35.46	34.95	34.4	33.59	32.48	30.04	27.93	24.99	19.64	-2.66	0	0	0	0	0	0	92.55
10000	0	0	0	0	0	0	0	19.32	18.42	17.03	14.58	4.82	0	0	0	0	0	0	0	0	0	0	0	74.7
OASPL	71.37	72.7	73.54	74.13	74.55	74.65	75.34	75.7	75.96	76.71	77.24	78.01	78.84	79.7	80.68	81.43	82.41	83.17	83.53	83.55	82.67	81.22	78.64	145.67
PNL	77.93	79.16	80.16	80.96	81.55	81.98	82.62	83.03	83.21	83.7	84.13	84.62	84.95	85.5	85.92	86.2	86.59	86.59	86.29	85.66	84.06	82.16	78.61	89.23

NASA Lewis Allison AST Jet Noise Test 1996

rdg	296
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	579.92
m01	0.30021
pamb	14.1925
tamb	500.236
rhumid	89.34
winds1	0
nprc	1.171
nprb	1.214
ptc	16.6194
ptb	17.2297
wactc	1.608
wactb	9.822
ttc	1102.62
ttb	496.022
ptmix	17.1438
ttmix	583.078
mixpnd	0.469847
grsvixp	6628.49
badchan	{04,19,21,23,25,26}
bkgnd	263
escdate	25.Nov.96
esctime	21:53:48
DADSdate	25.Nov.96
DADStime	21:53:48
blchdate	25.Nov.96
blchtime	21:53:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:19:15 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	52.61	52.84	53.5	54.43	57.19	57.83	56.68	56.45	59.05	59.84	56.39	57.51
100	61.07	62.88	62.96	63.25	65.38	66.86	66.73	68.67	67.96	66.81	66.69	67.28
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	54.8	55.92	56.41	56.42	56.87	57.55	58.28	58.88	59.26
200	58.33	59.29	61.96	63.72	65.55	65.75	66.09	66.89	66.57	65.6	65.41	65.75
250	61.98	65.11	66.11	68.23	67.64	66.63	69.3	69.81	69.95	70.11	71.46	71.93
320	63.69	68.02	69.34	69.75	68.09	68.58	69.41	70.13	70.69	70.92	70.67	70.79
400	63.46	67.29	68.53	69.04	68.53	69.94	70.26	70.05	70.21	71.08	71.98	71.97
500	64.52	67.26	68.24	68.89	69.08	70.21	70.22	70.16	70.58	70.91	70.71	70.44
630	64.02	67.09	67.92	68.68	69.15	70.19	70.9	70.82	70.97	70.76	70.99	71.01
800	64.12	66.71	67.03	68.86	69	69.54	70.19	70.52	70.99	70.76	70.89	70.84
1000	62.69	65	65.23	67.93	67.21	68.3	68.97	69.39	69.69	70.49	70.39	70.55
1300	61.35	63.87	64.39	66.35	66.35	66.74	66.97	67.77	67.6	66.85	66.68	66.8
1600	59.13	62.19	62.62	64.5	64.76	66.06	66.97	67.19	67.16	67.07	66.93	66.65
2000	55.73	60.78	61.38	64.01	63.82	64.67	65.76	65.73	65.48	65.48	65.74	65.95
2500	56.45	59	60.2	62.57	63.74	63.53	64.26	64.12	63.59	63.32	63.72	64.29
3200	56.09	58.82	60.47	63.61	64.54	63.67	64.76	64.41	63.84	64.01	64.48	64.73
4000	56.27	56.89	60.87	64.02	64.68	64.27	65.33	64.55	64.2	64.06	64.74	64.71
5000	57.01	59.52	62.27	64.7	64.74	65.01	65.72	65.82	65.07	64.94	65.88	65.85
6300	58.79	60.36	63.24	66.34	66.17	66.47	67.16	67.25	66.69	66.56	66.96	66.54
8000	60.21	61.96	64.77	67.42	67.53	67.89	68.43	68.52	68.14	68.11	68.47	68.13
10000	60.64	61.4	63.83	66.84	67.71	67.84	67.55	67.52	66.98	67.18	67.69	66.27
OASPL	74	76.88	78.02	79.64	79.7	80.36	80.9	81.16	81.18	81.23	81.51	81.52

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.61	59.39	60.1	60.63	61.03	61.37	61.72	62.15	62.81	63.97	66.13	101.98
100	68.08	68.78	69.31	69.72	70.06	70.37	70.71	71.18	71.85	73.06	75.28	111.19
130	0	0	0	0	0	0	0	0	0	0	0	42.93
160	59.32	59.07	58.78	58.65	58.66	58.79	59.07	59.53	60.29	61.59	63.93	100.73
200	66.11	66.36	66.05	65.34	65.03	65.51	66.43	67.22	67.48	67.31	67.55	108.5
250	72.79	72.96	71.95	71.01	71.8	72.93	73.45	73.18	72.04	70.38	69.39	113.63
320	70.58	70.45	70.48	70.42	70.3	70.34	70.41	70.28	69.76	69.08	69.05	112.85
400	71.89	71.78	71.38	70.98	70.29	69.77	69.31	68.94	65.38	64.76	64.55	113.09
500	70.75	71.23	71.16	70.63	70.4	70.08	69.46	68.75	67.8	67.37	67.59	112.86
630	71.48	71.84	71.47	70.68	70.16	69.59	68.82	68.02	67.39	67.16	67.67	113.03
800	70.16	72.17	72.37	69.87	68.53	68.09	67.63	67.18	66.46	65.78	65.43	112.68
1000	69.65	70.6	70.28	68.06	67.09	66.67	66.05	65.37	63.63	63.12	63.2	111.49
1300	65.72	65.38	65.42	64.91	63.94	63.18	62.9	62.75	60.88	60.5	60.64	108.68
1600	66.24	65.87	65.36	64.7	63.99	63.2	62.58	62.04	59.71	59.58	60.22	108.28
2000	65.2	64.18	63.4	62.8	62.05	61.19	60.82	60.5	59.09	58.88	59.25	106.92
2500	63.17	62.84	62.41	61.49	60.76	59.46	58.79	58.24	56.72	56.66	57.34	105.39
3200	63.92	63.22	62.66	61.84	60.59	59.59	58.9	58.41	57.25	57.02	57.44	105.85
4000	64.24	63.03	61.97	61.34	60.58	59.63	58.71	57.94	56.78	56.45	56.83	106.01
5000	64.96	63.83	62.72	61.77	60.64	59.75	59.03	58.45	57.99	57.83	58.32	106.77
6300	66.3	65.32	64	62.67	61.25	60.27	59.66	59.28	59.04	59.03	59.6	108.08
8000	67.59	66.59	65.27	63.78	62.27	61.31	60.67	60.71	60.57	60.62	61.19	109.43
10000	65.99	65.66	64.71	63.44	62.18	61.25	60.69	60.34	60.08	59.98	60.41	108.66
OASPL	81.43	81.64	81.3	80.43	80.06	79.99	79.9	79.69	78.98	78.8	79.61	123.33

rdg	298
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nstrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	579.92
m01	0.30021
pamb	14.1925
tamb	500.236
rhumid	89.34
winds1	0
nprc	1.171
nprb	1.214
ptc	16.6194
ptb	17.2297
wactc	1.606
wactb	9.822
ttc	1102.82
ttb	498.022
ptmix	17.1438
ttmix	583.078
mixpnd	0.489847
grevlup	6626.49
badchan	(04,19,21,23,25,26)
bkgnd	283
acqdate	25 Nov 96
acqtime	21:53:48
DADSdate	25 Nov 96
DADStime	21:53:48
btchdate	25 Nov 96
btchtime	21:53:48

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 02:19:22 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	43.34	45.72	47.17	47.35	38.42	36.3	0	0	0
80	35.02	34.58	32.28	0	0	0	0	48.61	45.18	41.32	38.54	36.49
100	0	0	0	40.33	41.71	41.7	39	0	0	44.28	44.72	44.86
130	0	0	0	0	0	41.9	43.46	38.72	34.69	0	0	0
160	36.98	41.35	43.65	48.49	47.97	48.38	49.3	48.59	47.52	46.92	48.45	49.48
200	40	44.39	46.57	48.28	47.57	48.22	48.61	49.38	49.68	49.91	50.94	50.59
250	40.46	45.75	47.01	48.67	45.98	48.25	49.26	49.51	49.81	49.7	49.43	49.74
320	40.84	44.81	45.97	47.7	47	48.51	48.53	49.13	49.69	50.6	50.88	49.81
400	41.85	44.81	48.83	47.53	48.17	48.88	49.42	48.89	49.71	49.89	50.01	49.98
500	39.48	43.27	43.8	45.83	46.75	47.38	48.3	49.18	49.12	48.75	48.77	48.3
630	38.86	41.42	42.41	44.86	44.89	45.84	46.82	48.45	48.74	48.43	48.1	47.88
800	36.99	40.32	40.87	43.85	43.43	44.13	44.03	46.85	46.81	46.86	46.3	45.71
1000	34.5	37.23	38.33	40.47	40.78	42.28	43.27	44.74	44.4	43.27	42.58	42.56
1300	31.93	35.42	36.19	38.94	39.24	40.45	41.58	43.58	43.6	43.48	43.21	42.58
1600	25.39	32.73	33.96	37.16	37.46	38.4	38.96	41.45	40.84	40.29	40.01	39.84
2000	26.78	30	31.83	35.13	37.24	36.89	37.91	38.84	38.3	37.75	38.08	38.31
2500	22.86	26.5	29.82	33.48	34.8	34.64	36.16	37.68	37.03	37.07	37.37	36.95
3200	17.59	22.93	26.4	30.37	31.29	31.96	33.09	35.53	35.25	35.01	35.56	35.05
4000	0	2.28	19.71	25.24	28.22	27.35	28.71	33.35	32.86	32.45	32.95	32.06
5000	0	0	0	9.68	13.26	16.66	19.86	29.24	28.84	28.7	28.97	28.01
6300	0	0	0	0	0	0	0	20.4	19.84	19.16	18.91	16.14
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	49.17	52.99	54.41	56.34	56.66	57.74	58.33	58.75	58.79	58.79	58.98	58.79
PNL	54.73	58.88	60.5	62.67	63.2	64.29	65.05	65.26	65.19	65.36	65.51	64.99

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	47.89	48.19	48.24	48.06	47.7	47.18	37.77	35.83	34.03	32.52	31.8	108.81
80	0	0	0	0	0	0	46.52	44.83	43.06	41.58	40.7	108.38
100	44.81	43.98	43.18	41.72	39.36	37.15	0	0	0	0	0	104.71
130	0	0	0	38.71	38.33	38.09	35.08	33.15	31.42	30.01	29.2	100.13
160	49.31	50.77	49.19	48.05	47.82	48.94	41.24	40.79	39.51	37.39	38.41	111.78
200	50.91	50.43	49.47	47.87	47.3	45.95	48.25	46.55	44.33	40.55	36.44	112.99
250	49.54	49.28	48.67	48.06	46.38	44.75	45	43.36	41.21	38.46	35.56	112.09
320	49.3	48.95	48.08	46.94	45.95	44.73	43.44	41.61	36.7	33.81	31.1	111.88
400	49.74	49.31	48.52	47.12	45.71	43.97	42.64	40.82	38.02	35.16	31.8	111.93
500	48.07	48.14	47.91	45.69	43.5	41.81	41.92	39.38	36.79	33.9	30.75	110.69
630	46.27	48.47	47.61	43.22	41.33	39.62	39.92	37.7	34.89	31.23	26.8	109.88
800	43.88	42.98	41.77	40.13	37.62	35.43	37.53	34.99	31.09	27.63	23.25	107.24
1000	41.28	40.63	39.68	38.17	36.57	34.57	33.55	31.45	26.7	22.66	17.82	104.65
1300	41.48	39.99	38.35	36.85	34.56	32.13	32.37	29.67	24.6	20.47	15.34	103.8
1600	38.27	36.55	35.27	33.84	31.48	28.72	29.73	27.03	22.72	18.24	1.08	101.08
2000	36.89	35.88	34.5	32.48	30.04	27.38	26.26	23.37	18.54	7.7	0	99.31
2500	35.82	33.96	32.11	30.47	28.08	25.23	24.51	21.25	10.44	0	0	97.8
3200	33.88	31.79	29.89	27.56	24.82	20.88	21.7	11.34	0	0	0	95.44
4000	30.92	29.09	26.59	23.4	15.54	0	11.28	0	0	0	0	92.22
5000	26.68	23.95	18.65	4.61	0	0	0	0	0	0	0	87.4
6300	8.67	0	0	0	0	0	0	0	0	0	0	76.97
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	58.73	58.8	57.98	56.68	55.58	54.77	53.88	52.11	49.75	47.11	44.94	121.24
PNL	64.4	63.83	62.71	61.09	59.37	57.51	55.38	52.76	48.75	44.48	39.91	62.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg 297
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engin Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mbrbld BASE
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vjd 823.25
m01 0.3005
pamb 14.1995
tamb 499.594
rhumid 69.77
winds1 0
nprc 1.393
nprb 1.444
ptc 19.7799
ptb 20.5041
wactc 2.554
wactb 14.01
ttc 1165.23
ttb 497.324
ptmix 20.3924
ttmix 600.308
mbpnd 0.685331
gravbp 13636.3
badchan (04,16,21,25,26)
bkgnd 283
eacdate 25 Nov 96
eactime 22:01:35
DADSdate 97.06.20
DADStime 22:01:35
btchdate 25 Nov 96
btchtime 22:01:35
**Scenario 150 foot arc; 77F, 70%, Full scale; Third-octave SPL
Processing date: Fri Aug 22 14:56:43 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency (	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	68.36	68.86	68.4	69.36	69.71	70.85	69.9	69.74	70.73	70.39	70.8	72.04	73.45	74.68	75.37	75.27	74.78	75.56	77.32	78.92	80.37	82.02	84.25	117.11
100	65.79	68.57	70.89	70.91	71.29	72.4	73.06	71.97	71.49	71.4	71.8	72.8	73.93	74.58	74.92	75.41	76.29	77.56	78.98	80.27	81.69	83.5	85.91	118.32
130	68.79	69.91	70.56	70.69	71.03	71.03	70.95	70.83	70.72	70.66	70.84	71.61	73.16	74.56	75.47	76.19	76.99	77.99	79.14	80.31	81.53	82.91	84.66	118.07
160	69.75	70.3	71.05	71.81	72.3	72.37	72.31	72.33	72.53	72.94	73.59	74.37	75.13	75.84	76.57	77.37	78.26	79.29	80.35	81.34	82.27	83.26	84.25	119.18
200	69.08	70.38	71.62	72.71	73.41	73.69	73.98	74.37	74.74	75.02	75.23	75.57	76.12	76.64	77.21	77.93	78.81	79.67	80.36	80.92	81.45	82.12	83.1	119.57
250	70.42	71.36	72.12	72.7	73.15	73.49	73.79	74.13	74.57	75.13	75.88	76.82	77.9	78.8	79.48	80.02	80.51	81.01	81.54	82.09	82.51	82.87	83.35	120.67
320	72.06	73.09	73.41	73.57	73.78	74.06	74.4	74.78	75.18	75.55	75.94	76.55	77.42	78.03	78.52	79.22	80.09	80.53	80.29	79.65	79.03	78.74	78.95	119.85
400	71.64	72.45	73.08	73.61	74.07	74.53	75.02	75.51	75.99	76.26	76.36	76.62	77.16	77.69	78.07	78.33	78.56	78.81	78.86	78.43	78.07	78.16	78.72	119.43
500	71.55	72.64	73.4	73.85	74.37	74.7	74.98	75.24	75.49	75.76	76.09	76.55	77.15	77.79	78.26	78.34	78.05	77.56	77.01	76.33	75.7	75.21	75.03	118.97
630	71.28	72.45	73.29	73.95	74.49	74.93	75.06	75.16	75.31	75.45	75.8	75.8	76.09	76.46	76.75	76.77	76.52	76.11	75.64	75.03	74.42	73.93	73.79	118.2
800	70.96	71.9	72.25	73.11	73.32	73.83	74.42	74.77	75.02	75.06	75.11	75.15	75.16	75.22	75.23	75.06	74.67	74.06	73.34	72.6	71.94	71.54	71.82	117.12
1000	70.73	71.58	71.65	71.69	72.03	72.74	73.41	73.82	74.12	74.36	74.72	74.8	74.5	74.25	73.97	73.54	72.9	72.07	71.26	70.64	70.16	69.85	69.9	116.11
1300	69.72	70.97	71.37	71.62	71.92	72.3	72.4	72.28	72.31	72.52	72.99	72.84	72.91	73.01	72.83	72.4	71.73	70.86	69.93	69.05	68.37	68.01	68.2	114.86
1600	69.68	70.42	70.79	71.33	71.91	72.21	71.94	71.87	71.92	71.79	71.94	71.22	71.08	71.46	71.71	71.36	70.33	68.97	67.97	67.76	67.82	67.62	67.49	114.05
2000	70.53	70.34	70.66	71.35	71.74	71.86	72.26	72.29	71.82	71.68	71.99	71.01	70.72	71.06	71.15	70.76	69.94	68.95	68.05	67.39	66.92	66.5	66.45	113.92
2500	69.99	70.03	70.51	71.48	71.78	71.81	71.71	71.44	71.48	71.23	71.26	70.39	70.02	70.12	70.15	69.72	68.75	67.72	66.9	66.45	66.17	65.89	65.92	113.39
3200	70.27	70.27	70.99	72.15	72.86	72.54	72.74	72.26	72.11	71.6	71.32	70.56	70.09	70.12	70.16	69.61	68.28	66.99	66.16	65.86	65.77	65.52	65.46	113.79
4000	69.84	69.96	71.13	72.55	72.75	72.69	73.07	71.86	72.08	71.31	71.14	70.16	69.68	69.54	69.26	68.56	67.46	66.36	65.61	65.21	64.97	64.89	64.68	113.62
5000	68.78	69.67	70.94	72.28	71.98	72.14	72.73	72	72.07	71.22	71.4	70.02	69.43	69.35	69.06	68.34	67.1	65.79	64.76	64.15	63.8	63.46	63.42	113.35
6300	69.57	70.11	71.8	73.27	72.96	72.98	73.5	72.86	72.92	71.87	71.31	70.04	69.5	69.47	69.27	68.41	66.86	65.35	64.37	64.15	64.14	63.8	63.46	113.94
8000	69.1	70.31	72.18	73.8	73.34	73.32	74.07	73.23	73.39	72.12	71.82	70.64	69.93	69.76	69.57	68.54	66.61	64.92	64.15	64.47	64.85	64.48	63.69	114.3
10000	68.76	68.93	70.66	72.61	73.26	73	72.07	71.86	71.71	69.97	69.81	67.94	67.4	67.92	68.25	67.59	65.7	63.37	62.03	62.5	63.35	62.93	61.59	112.93
OASPL	83.46	84.26	85.06	85.86	86.17	86.44	86.7	86.63	86.61	86.76	86.97	87.11	87.56	88.06	88.47	88.72	88.94	89.26	89.66	90.09	90.64	91.48	92.8	130.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg	297
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	823.25
m01	0.3005
pamb	14.1995
tamb	499.594
rhumid	89.77
winds1	0
nprc	1.393
nprb	1.444
ptc	19.7799
ptb	20.5041
wactc	2.554
wactb	14.01
ttc	1165.23
ttb	497.324
ptmix	20.3924
ttmix	600.308
mixpnd	0.685331
grsvisp	13636.3
badchan	(04,18,21,25,26)
bkgnd	283
escdate	25.Nov.96
esctime	22:01:35
DADSdate	97.08.20
DADStime	22:01:35
blchdate	25.Nov.96
blchtime	22:01:35

**Scenario. Fly-over, full-scale, 1500' sideline, standard day

Processing date: Fri Aug 22 14:56:54 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (f	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	46.16	45.97	46.45	50.42	50.77	51.05	50.96	49.7	53.03	51.98	51.1	50.57
80	39.46	48.28	50.31	48.98	50.97	51.01	51.47	51.9	49.51	48.28	51.18	51.58
100	47.85	48.58	48.96	50.15	49.58	51.24	50.87	50.72	50.29	50.79	50.57	52.77
130	46.93	47.36	50.04	51.55	52.85	53.34	52.92	52.16	51.62	52.88	52.99	54.26
160	46.67	48.58	49.49	50.96	52.1	52.91	53.84	54.08	54.65	54.4	54.56	55.17
200	46.57	49.87	51.47	52.33	52.86	53.32	53.82	53.7	54.48	55.28	56.08	56.22
250	49.44	50.62	50.82	51.16	52.4	53	53.85	54.16	54.28	54.3	54.33	54.83
320	48.05	49.74	50.92	52.1	52.58	53.16	53.43	54.59	55.22	55.24	54.96	55.02
400	48.2	49.81	51.43	52.4	53.11	53.56	53.7	53.97	54.55	54.78	54.97	54.8
500	46.81	48.28	49	49.87	50.67	51.48	52.18	53.55	53.39	53.29	53.14	52.92
630	45.89	48.02	48.63	49.35	49.75	50.38	51.15	52.69	52.81	52.5	52.29	52.17
800	44.41	45.69	46.62	47.42	48.27	49.21	49.3	51.28	51.35	50.88	50.8	50.11
1000	43.32	45.32	46.24	47.01	47.82	48.41	48.32	49.24	49.17	49.26	49.29	48.71
1300	42.81	44.06	45.06	45.91	46.69	47.32	47.89	48.27	48.29	47.83	47.84	46.56
1600	42.15	42.67	43.78	45.15	45.97	46.4	48.36	47.98	47.47	47.17	46.97	45.63
2000	39.88	40.85	42.34	44.07	45.1	45.38	45.87	46.16	46.25	45.82	45.67	44.36
2500	37.21	38.25	39.89	42.13	43.09	43.37	44.01	45.52	45.28	44.64	43.98	42.56
3200	32.3	34	36.25	36.42	38.83	39.29	40.12	42.9	43.13	42.23	41.72	40.22
4000	24.15	27.13	29.97	32.47	33.34	34.14	35.2	38.58	39.61	38.54	38.3	38.12
5000	0.6	11.49	20.13	24.24	25.31	26.18	27.63	34.95	35.01	33.86	32.97	31.18
6300	0	0	0	0	0	0	0	26.96	27.21	25.21	23.92	20.94
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	58.34	59.89	61.05	62.07	62.86	63.45	63.77	64.29	64.55	64.56	64.69	64.85
PNL	66.18	67.44	68.72	70.05	70.91	71.42	71.84	71.91	71.9	71.58	71.5	70.96

distance: (f	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	52.91	52.19	51.66	51.57	51.65	54.17	52.6	52.57	51.55	50.53	53.71	117.01
80	51.21	53.74	53.83	53.73	53	54.42	54.48	54.03	53.45	53.05	52.68	117.86
100	52.75	52.7	54.57	54.6	54.39	55.52	54.32	54.12	53.73	53.16	52.37	118.18
130	54.46	55.27	54.85	55.41	55	54.47	55.41	55.07	54.17	52.84	50.96	118.94
160	55.16	56.51	56.54	57.48	57.08	57.22	55.33	54.48	53.22	51.76	51.29	119.75
200	57.3	57.67	57.49	56.91	57	56.14	56.45	55.46	54.54	52.65	49.95	120.33
250	54.8	55.31	55.48	55.33	54.78	54.03	54.9	52.75	50.53	47.97	45.23	118.48
320	55.54	55.77	55.77	55.28	54.08	52.82	53.05	51.12	49.1	46.81	44.34	118.3
400	54.66	54.38	54.01	53.04	51.69	50.3	50.47	48.44	45.81	42.79	38.91	117.22
500	52.42	52.04	51.53	50.73	49.4	47.73	48.72	46.43	43.73	40.58	36.76	115.3
630	51.63	50.93	50.03	48.78	47.24	45.09	45.62	43.12	40.21	36.99	32.82	114.09
800	49.34	48.72	48.07	47	45.15	42.98	42.78	40.26	37.39	33.86	29.34	112.28
1000	48.12	47.37	46.38	45.04	43.1	40.48	40.47	37.69	34.52	30.86	25.94	110.84
1300	48.12	46.03	45.09	43.77	41.81	39.45	37.79	35.4	32.71	28.63	22.97	109.56
1600	44.91	44.43	43.81	42.03	39.74	37.13	36.83	33.88	30.48	26.05	19.78	108.51
2000	43.28	42.64	41.82	40.37	37.82	34.9	34.36	31.54	28.02	23.21	10.76	107.12
2500	41.61	40.84	39.72	37.72	34.98	31.99	31.97	28.9	25.16	18.97	0	105.42
3200	39.07	38.03	36.49	34.27	31.39	27.92	28.8	25.31	19.89	0	0	102.42
4000	34.69	33.67	32.12	29.72	26.18	20.07	23.96	16.77	0	0	0	98.19
5000	29.88	28.53	26.38	22.26	11.94	0	4.62	0	0	0	0	92.69
6300	16.61	10.13	-2.39	0	0	0	0	0	0	0	0	83.1
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	65.06	65.4	65.33	65.16	64.59	64.47	64.22	63.27	62.13	60.79	60.12	128.83
PNL	70.87	70.83	70.46	69.69	68.27	66.93	65.44	63.82	61.52	58.71	55.37	70.65

NASA Lewis Allison AST Jet Noise Test 1996

rdg 298
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nalrbld NATR full wedge
ngbld JER w/ external supplement
mixbld BASE
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 915.77
m01 0.29962
pamb 14.2012
tamb 499.83
rhumid 89.79
winds1 0
nprc 1.539
nprb 1.611
ptc 21.8556
ptb 22.8781
wactc 2.796
wactb 16.611
ttc 1297.29
ttb 496.665
ptmix 22.7308
ttmix 612.013
mixpnd 0.755026
grsvixp 17772.3
badchan (04,16,21,25,26)
bkgnd 283
escdate 25.Nov.96
esctime 22:10:15
DADSdate 25.Nov.96
DADStime 22:10:15
blohdate 25.Nov.96
blohtime 22:10:15
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:22:02 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	72.48	73.58	74.02	74.12	74.04	73.93	73.86	73.91	74.12	74.52	75.13	75.89
100	74.01	75.83	76.41	76.5	76.51	76.64	76.84	77.04	77.16	77.12	77.01	77.11
130	74.75	75.68	76.04	76.06	75.92	75.72	75.56	75.49	75.56	75.79	76.2	76.81
160	76.46	77.29	77.81	78.12	78.32	78.46	78.6	78.76	78.95	79.2	79.53	79.97
200	76.09	77.57	78.4	78.83	79.03	79.11	79.17	79.25	79.42	79.69	80.1	80.64
250	75.81	76.53	76.96	77.25	77.5	77.81	78.22	78.77	79.46	80.31	81.28	82.32
320	76.57	77.47	77.99	78.29	78.53	78.79	79.1	79.49	79.98	80.58	81.28	82.02
400	76.11	76.54	77.11	77.69	78.22	78.68	79.14	79.68	80.33	81.11	81.95	82.68
500	76.33	77.11	77.43	77.6	77.81	78.13	78.52	78.94	79.33	79.66	80.15	81.02
630	75.11	75.92	76.43	76.82	77.17	77.52	77.87	78.21	78.6	79.07	79.49	79.8
800	74.98	75.58	76.06	76.48	76.81	77.13	77.51	78.1	78.71	78.96	79.2	79.59
1000	75.84	77.5	77.8	77.5	77.18	77.1	77.28	77.59	77.91	78.27	78.57	78.61
1300	74.3	75.04	75.19	75.28	75.58	76.26	76.86	77.43	77.97	77.99	78.45	78.58
1600	74.04	74.47	74.56	74.85	75.29	75.6	75.7	76.02	76.2	76.1	76.16	76.24
2000	73.54	73.72	74.27	75.11	75.76	76.17	76.2	76.2	76.27	76.06	75.99	76.03
2500	73.56	73.58	74.24	75	75.68	76.09	76.01	75.86	75.75	75.35	75.25	75.16
3200	73.7	73.67	74.42	75.5	76.22	76.5	76.09	75.84	76.15	75.51	75.21	74.71
4000	73.32	73.46	74.35	75.43	76.05	76.63	76.2	75.61	76	75.15	74.73	74.36
5000	72.48	72.79	73.75	74.45	74.86	75.82	75.58	75.13	75.3	74.47	74.12	73.54
6300	72.03	72.48	73.75	75.04	75.4	75.82	75.87	75.45	75.71	74.82	74.01	73.22
8000	71.58	72.32	73.96	75.59	76.03	76.15	76.09	75.72	75.91	74.87	74.25	73.49
10000	70.47	70.53	72.06	74.3	75.33	75.33	74.05	73.73	73.6	72.31	72.14	70.48
OASPL	87.99	88.78	89.35	89.82	90.13	90.4	90.51	90.69	91.03	91.2	91.56	91.97

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.79	77.79	78.88	80.03	81.24	82.5	83.78	85.06	86.42	88.06	90.36	122.45
100	77.61	78.46	79.59	80.93	82.43	84.04	85.67	87.25	88.81	90.5	92.54	124.43
130	77.63	78.64	79.65	81.24	82.81	84.54	86.33	88.06	89.74	91.48	93.49	124.89
160	80.55	81.28	82.18	83.23	84.46	85.86	87.43	89.05	90.75	92.5	93.8	126.38
200	81.29	82.07	82.96	83.95	85.04	86.25	87.53	88.86	90.35	92	93.45	126.5
250	83.36	84.38	85.33	86.21	87.01	87.73	88.41	89.11	89.99	91.12	92.08	127.03
320	82.74	83.43	84.1	84.73	85.35	85.98	86.66	87.4	88.07	88.58	88.98	125.84
400	83.25	83.89	84.56	84.99	85.06	85.15	85.32	85.62	85.91	86.02	86.18	125.35
500	81.82	82.65	83.43	83.93	84.07	84.18	84.27	84.23	84.01	83.74	83.71	124.18
630	80.32	81.04	81.73	82.2	82.36	82.34	82.29	82.35	82.34	82.15	82.03	122.8
800	80.02	80.31	80.45	80.39	80.23	80.33	80.35	79.85	79.13	78.5	78.22	121.73
1000	78.85	79.15	79.27	79.12	78.69	78.27	77.77	77.04	76.33	75.89	75.89	120.93
1300	78.21	78.22	78.28	78.04	77.42	76.64	75.85	75.21	74.72	74.38	74.41	119.98
1600	76.29	76.54	76.76	76.8	75.88	75.04	74.29	73.67	73.15	72.83	72.97	118.53
2000	76.09	76.32	76.42	75.98	74.97	73.99	73.21	72.46	71.87	71.57	71.83	118.36
2500	75.17	75.28	75.32	74.89	74.01	73.1	72.31	71.65	71.15	70.87	71.1	117.8
3200	74.88	75.19	75.07	74.38	73.23	72.13	71.24	70.4	69.82	69.64	70.06	117.77
4000	74.32	74.35	74.06	73.3	72.13	71.01	70.08	69.35	68.88	68.79	69.34	117.42
5000	73.49	73.61	73.36	72.49	71.06	69.81	68.61	67.92	67.38	67.39	68.17	116.63
6300	73.26	73.23	72.63	71.61	70.28	68.93	67.75	66.86	66.42	66.47	67.32	116.64
8000	73.4	73.34	72.75	71.53	69.9	68.52	67.47	66.59	66.04	66	66.77	116.66
10000	70.93	71.58	71.2	70.11	68.55	66.89	65.42	64.31	63.82	63.43	63.98	115.11
OASPL	92.51	93.15	93.8	94.37	94.91	95.6	96.44	97.41	98.51	99.81	101.19	136.22

NASA Lewis Allison AST Jet Noise Test 1996

rdg	298
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mxbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	915.77
m01	0.29962
pamb	14.2012
tamb	499.83
rhumid	89.79
winds1	0
nprc	1.539
nprb	1.611
ptc	21.8556
ptb	22.8781
wactc	2.796
wactb	16.611
ttc	1297.29
ttb	496.665
ptmix	22.7308
ttmix	612.013
mixpnd	0.755026
grsvbp	17772.3
badchan	[04,16,21,25,26]
bkgnd	283
escdate	25.Nov.96
esctime	22:10:15
DADSdate	25.Nov.96
DADStime	22:10:15
btchdate	25.Nov.96
btchtime	22:10:15

**Scenario: Fly-over, full scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:22:08 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
63	51.7	52.7	53.25	56.26	55.14	54.78	54.87	53.87	55.91	55.36	55.25	56.39	57.99	57.52	57.42	57.77	58.27	60.67	59.06	58.77	57.67	58.64	60.45	122.77
80	50.21	54.06	54.53	53.57	55.35	55.11	56.03	56.97	55.6	54.58	56.06	55.39	54.28	58.68	57.09	57.71	57.94	60.86	61.2	61.04	60.65	60.18	59.45	123.74
100	53.9	54.51	55.02	58.33	56.14	57.75	57.23	55.38	55.15	56.87	56.55	58.5	58.16	57.95	60.04	60.26	60.47	62.09	61.48	61.88	61.97	61.76	61.21	125.17
130	54.1	55.38	56.9	57.2	58.21	58.96	58.48	58.58	57.96	58.81	58.5	59.29	59.37	60.36	60.22	61.53	61.48	61.36	62.5	62.79	62.65	62.15	60.71	125.95
160	54	56.04	56.53	58.98	57.1	57.48	58.31	58.98	59.22	58.94	59.56	60.46	60.64	62.12	62.35	63.43	63.31	63.88	62.51	62.44	62.12	61.7	61.54	126.54
200	53.77	54.41	55.81	56.8	57.82	58.18	58.52	58.34	59.46	60.68	61.69	61.81	62.58	62.85	62.99	62.5	62.41	61.57	63.3	62.5	62.14	60.97	58.72	126.41
250	53.9	55.03	55.45	56.77	56.65	57.45	58.16	58.88	59.16	59.45	59.82	60.57	61.01	61.59	62.06	62.11	61.31	60.37	61.32	60.5	59.7	57.87	55.23	124.89
320	52.56	54.19	55.48	56.56	56.81	57.1	57.2	58.77	59.51	59.86	60.13	60.35	60.79	60.89	60.95	60.63	59.91	59.18	59.51	58.31	56.75	54.52	51.79	123.74
400	52.53	53.44	54.2	54.68	55.22	55.71	56.21	57.68	58.01	58.15	58.67	59.03	58.93	58.94	59.12	58.83	58.04	56.68	57.78	56.34	54.16	51.44	47.64	121.94
500	50.47	51.92	52.72	53.41	54.17	54.81	55.2	56.56	56.93	57.43	57.57	57.52	57.38	57.02	56.82	56.15	55.06	54.12	55.35	53.73	51.63	48.75	44.99	120.07
630	50.13	53.62	54.65	54.77	54.71	54.71	54.92	56	56.4	56.44	56.28	56.38	56.24	56.07	55.47	54.33	52.83	51.12	52.68	50.39	47.4	43.94	39.32	118.93
800	49.27	49.77	50.56	51.28	51.98	52.9	53.67	55.06	55.19	55.08	54.94	54.34	54.34	54.11	53.47	52.45	50.81	48.89	49.21	46.66	43.55	39.85	35.28	116.84
1000	47.94	49.5	50.26	50.78	51.36	51.81	52.14	54.38	54.87	54.6	54.86	54.59	53.39	52.52	51.61	50.36	48.59	46.46	46.46	43.84	40.84	37.12	32.04	115.85
1300	46.78	47.67	48.59	49.64	50.52	51.29	51.67	52.42	52.56	52.36	52.18	51.88	51.59	51.22	50.37	49.05	48.95	44.51	44.09	41.31	38.09	33.98	28.52	114.08
1600	45.12	46.02	47.28	48.79	50	50.68	50.63	51.89	51.94	51.37	50.84	50.51	50.07	49.47	48.69	47.15	45	42.57	41.89	38.94	36.39	31.06	25.17	112.87
2000	43.37	44.46	45.88	47.45	48.67	49.41	49.24	50.56	50.44	49.92	49.6	48.93	48.27	47.83	47	45.23	42.68	39.97	39.84	36.7	32.98	28.2	21.52	111.34
2500	40.46	41.65	43.49	45.38	46.49	47.23	47.24	49.09	49.41	48.58	47.88	46.91	46.36	45.67	44.48	42.49	39.77	36.74	37.01	33.46	29.25	23.95	8.35	109.39
3200	35.85	37.36	39.22	40.89	42.06	43.3	43.06	46.68	46.93	45.86	45.1	44.1	43.36	42.47	41.01	38.69	35.57	32.08	33.37	29.52	24.88	15.87	0	106.14
4000	28.16	30.15	32.53	34.47	35.73	37.08	37.58	42.75	42.85	41.73	40.9	39.6	38.76	37.79	36.04	33.37	29.8	25.65	28.21	23.23	11.96	0	0	101.38
5000	8.41	17.39	22.71	26.46	28.12	29.42	30.07	37.56	37.88	36.97	35.67	34.18	33.25	31.9	29.62	28.15	20.52	0	18.76	0	0	0	0	95.64
6300	0	0	0	0	0	0	0	29.86	29.67	28.27	26.84	24.82	22.77	20.31	14.29	0	0	0	0	0	0	0	0	86.3
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	63.67	65.14	66.02	66.77	67.25	67.81	68.06	68.71	69.01	69.28	69.6	69.97	70.2	70.6	70.78	70.92	70.8	70.86	71.07	70.67	70.15	69.31	68.6	134.88
PNL	70.46	71.76	72.94	74.08	74.96	75.63	75.78	76.1	76.26	76.03	76.08	76.08	76.1	76.08	75.84	75.28	74.24	73.48	72.65	71.28	69.96	67.95	65.59	76.31

NASA Lewis Allison AST Jet Noise Test 1996

rdg	299
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	961.14
m01	0.29932
pamb	14.1987
tamb	499.932
rhumid	90.46
winds1	0
nprc	1.736
nprb	1.823
ptc	24.6489
ptb	25.8842
wacic	3.11
waclb	18.979
ttc	1383.92
ttb	496.563
ptmix	25.7103
ttmix	621.497
mixpnd	0.786363
gravixp	21230.6
badchan	(04,19,21,24,25,26)
bkgnd	283
escdate	25.Nov.96
esctime	22:14:27
DADSdate	97.08.18
DADStime	22:14:27
btchdate	25.Nov.96
btchtime	22:14:27

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:24:03 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	75.69	76.55	77.06	77.36	77.54	77.65	77.76	77.88	78.05	78.3	78.71	79.3
100	78.67	79.67	80.18	80.38	80.41	80.36	80.28	80.22	80.22	80.34	80.66	81.25
130	78.62	80.1	80.94	81.36	81.52	81.52	81.43	81.31	81.2	81.2	81.42	81.97
160	80.78	82.54	83.28	83.39	83.16	82.8	82.45	82.2	82.15	82.33	82.81	83.61
200	80.73	82.57	83.48	83.81	83.85	83.79	83.75	83.84	84.11	84.58	85.18	85.89
250	80.35	81.92	82.68	83	83.12	83.21	83.37	83.67	84.16	84.9	85.79	86.82
320	81.31	82.19	82.71	83.04	83.27	83.48	83.73	84.04	84.46	85	85.72	86.6
400	80.89	81.18	81.49	81.85	82.29	82.81	83.41	84.09	84.86	85.71	86.57	87.46
500	81.21	81.86	81.93	82.13	82.33	82.8	82.97	83.44	84.03	84.73	85.52	86.37
630	79.82	80.89	81.15	81.39	81.57	81.78	82.1	82.55	83.18	83.65	84.83	85.72
800	80.08	80.49	80.75	80.96	81.2	81.51	81.92	82.42	83.03	83.73	84.52	85.37
1000	79.66	80.36	80.66	80.75	80.85	81.04	81.36	81.85	82.54	83.3	83.99	84.61
1300	80.07	80.13	80.16	80.22	80.4	80.74	81.15	81.67	82.32	83.01	83.81	84.75
1600	80.12	80.57	80.58	80.5	80.53	80.78	80.93	81.15	81.58	82.08	82.42	82.78
2000	79.59	80.29	80.59	80.66	80.59	80.49	80.41	80.42	80.46	80.83	81.24	81.72
2500	79.61	80.31	80.67	80.7	80.48	80.23	80.08	80.09	80.44	80.88	80.5	80.85
3200	79.44	80.17	80.74	80.89	80.5	80.55	80.41	80.2	80.2	80.14	80.19	80.45
4000	78.67	79.47	80.54	80.81	80.02	80.29	80.56	79.89	79.97	80.17	79.83	79.72
5000	77.5	78.36	80.05	80.19	78.46	79.32	79.59	79.36	79.48	79.35	78.81	78.97
6300	76.24	77.36	79.41	79.58	77.84	78.75	79.7	79.2	79.68	79.51	78.14	78.24
8000	74.92	76.49	79.05	79.28	77.15	78.35	80.01	78.42	79.76	79.42	78.28	78.34
10000	73.34	74.01	76.83	77.61	75.76	76.68	77.73	77.28	77.49	77.07	78.14	75.41
OASPL	92.81	93.72	94.39	94.81	94.46	94.65	94.88	95.03	95.42	95.88	96.38	97.11

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.12	81.16	82.45	83.92	85.47	87.01	88.52	90.02	91.62	93.56	96.32	127.12
100	82.13	83.34	84.87	86.64	88.48	90.27	91.95	93.52	95.07	96.82	99.12	130.19
130	82.88	84.21	85.95	88	90.11	92.12	93.92	95.49	96.9	98.32	99.97	131.7
160	84.75	86.24	88.05	90.06	92.03	93.77	95.2	96.3	97.13	97.83	98.48	132.47
200	86.82	88.1	89.81	91.53	92.72	94.01	95.36	96.8	97.7	98.7	99.5	133.26
250	87.99	89.31	90.81	92.44	94.1	95.88	97.07	98.19	99.03	99.85	99.93	134.38
320	87.67	88.92	90.36	91.93	93.47	94.87	96.04	96.92	97.55	98.03	98.34	133.45
400	88.54	89.71	90.67	91.92	92.79	93.64	94.52	95.41	96.38	97.43	98.45	132.66
500	87.35	88.48	89.8	91.15	92.31	93.38	94.3	95.01	95.58	96.1	96.63	132.13
630	86.75	87.62	88.4	89.15	89.85	90.44	90.91	91.33	91.79	92.43	93.31	129.77
800	86.16	86.74	87.41	88.02	88.12	88.14	88.22	88.36	88.64	89.17	90.09	128.27
1000	84.94	85.2	85.38	85.38	85.21	85.05	84.91	84.82	84.86	85.19	85.97	126.45
1300	84.8	84.31	84.03	83.89	83.35	82.82	82.35	81.94	81.61	81.5	81.85	125.5
1600	83.14	83.29	83.24	82.92	82.1	81.41	80.93	80.54	80.2	80	80.29	124.81
2000	82	81.95	81.6	81.06	80.4	79.81	79.22	78.63	78.12	77.81	77.97	123.6
2500	81.07	81.06	80.63	80.06	79.29	78.53	77.77	77.08	76.58	76.42	76.78	123.04
3200	80.48	79.94	79.45	79.06	78.32	77.55	76.81	76.16	75.69	75.55	75.93	122.72
4000	79.45	78.83	78.37	78.04	77.26	76.4	75.58	74.87	74.37	74.24	74.68	122.21
5000	78.44	77.6	77.14	76.82	75.7	74.7	73.95	73.41	73.13	73.2	73.77	121.27
6300	77.91	76.9	76.18	75.66	74.49	73.44	72.69	72.17	71.91	72.04	72.7	120.78
8000	77.55	76.35	75.56	74.92	73.67	72.63	71.9	71.42	71.21	71.37	71.99	120.54
10000	74.57	73.51	72.9	72.64	71.91	71	70.04	69.15	68.48	68.23	68.58	118.32
OASPL	97.87	98.72	99.8	101.04	102.23	103.45	104.81	105.84	106.58	107.47	108.49	142.87

NASA Lewis Allison AST Jet Noise Test 1996

rdg	299
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	BASE
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	961.14
m01	0.29932
pamb	14.1987
tamb	499.932
rhumid	90.46
winds1	0
nprc	1.736
nprb	1.823
ptc	24.6489
ptb	25.8842
wactc	3.11
wactb	18.979
ttc	1383.92
ttb	496.563
ptmix	25.7103
ttmix	821.497
mixpnd	0.786363
grsvlsp	21230.8
badchan	[04,19,21,24,25,26]
bkgnd	283
escdate	25.Nov.96
esctime	22:14:27
DADSdate	97.08.18
DADStime	22:14:27
bichdate	25.Nov.96
bichtime	22:14:27

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:24:09 1997

Data ambi	14.70 psia
Data amb	537.0 R
Data amb	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	55.29	56.22	58.87	60.07	59.1	58.43	57.96	57.84	59.87	59.19	58.93	58.97	61.87	61.62	61.81	62.43	63.14	66.76	63.77	63.75	62.88	62.16	65.48	127.58
80	55.14	58.34	58.79	58	60.54	60.53	61.76	60.15	58.89	58.2	60.64	60.38	59.85	62.9	63.83	64.95	65.46	68.43	67.38	67.34	67.03	66.65	66.22	130.07
100	57.89	59.16	61.31	60.97	60.28	61.55	60.49	61.19	60.82	61.25	60.75	62.67	62.88	63.43	66.14	67.3	68.11	69.99	69.05	69.31	69.16	68.65	67.75	131.92
130	58.78	61.37	63.43	63.84	63.98	64.17	63.36	62.02	61.28	62.45	62.3	63.98	64.53	66.16	66.85	68.72	69.2	69.39	70.27	70.03	69.1	67.6	65.45	132.34
160	58.4	60.29	60.49	61.07	61.77	62.54	63.33	63.57	63.94	63.84	64.77	64.89	66.11	67.56	68.46	70.11	70.67	71.81	70.35	70.18	69.51	68.45	67.49	133.22
200	58.42	60.05	61.51	62.3	62.83	63.16	63.19	63.25	64.26	65.27	66.07	66.46	67.23	68.09	69.02	69.54	70.3	70.4	71.94	71.58	71.14	69.62	66.94	133.85
250	58.58	59.8	60.17	60.26	61.01	61.67	62.43	63.43	63.5	63.77	64.5	65.7	66.71	67.63	68.32	69	68.79	68.99	70.62	70.03	69.2	67.47	64.84	132.45
320	57.43	58.76	59.69	60.66	60.89	61.41	61.72	63.18	64.15	64.72	64.98	65.21	65.58	66.47	67.15	67.76	68.33	68.38	68.72	68.1	67.38	66.01	64.06	131.3
400	57.17	57.98	58.71	58.2	59.79	60.14	60.54	62.19	62.62	63.14	63.9	64.33	64.92	65.13	65.49	65.72	65.45	64.88	67.86	67.14	65.71	63.76	60.63	129.61
500	55.38	56.74	57.55	57.99	58.44	59.17	59.67	60.9	61.32	61.65	62.27	63.04	63.53	63.66	63.85	63.71	62.97	61.95	64.08	62.74	61.03	58.97	56.25	128.84
630	55.08	56.49	57.33	57.87	58.22	58.56	59	60.32	60.81	61.43	61.99	62.5	62.53	62.28	61.84	60.94	59.45	57.93	60.59	58.94	56.92	54.6	51.13	124.75
800	53.93	55.34	56.01	56.38	58.84	57.29	57.92	59.3	59.83	60.35	60.93	61.3	61.11	60.49	59.53	58.41	56.99	55.12	56.38	54.45	52.02	49	45.15	122.68
1000	53.9	54.63	55.46	56.96	58.44	57.11	57.34	58.63	59.21	59.61	59.96	60.36	59.81	58.83	57.98	56.85	54.94	52.92	52.97	50.6	47.7	44.14	39.25	121.39
1300	52.84	54.15	54.88	55.4	55.59	55.8	56.06	57.56	57.81	57.99	58.05	58.03	57.82	57.17	55.98	54.44	52.53	50.37	50.73	48.18	45.13	41.13	35.88	119.73
1600	51.16	52.73	53.72	54.35	54.74	54.83	54.88	56.11	56.06	56.27	56.17	56.1	55.89	55.09	53.87	52.31	50.28	48.03	47.93	45.14	41.64	37.29	31.32	117.99
2000	49.51	51.03	52.24	52.95	53.13	53.56	53.56	54.82	55.08	55.01	54.63	54.38	54.07	53.07	51.67	50.02	47.89	45.43	45.37	42.15	38.39	33.71	27.18	116.38
2500	46.22	48.11	49.66	50.6	50.59	51.04	51.43	53.45	53.45	53.23	52.92	52.52	51.67	50.36	48.85	47.28	44.93	42.1	42.57	39.25	35.14	29.86	22.2	114.16
3200	41.04	43.22	45.54	46.66	45.74	46.83	47.27	50.96	50.93	50.89	50	49.43	48.33	46.55	44.9	43.19	40.34	37.06	36.89	35.04	30.35	24.25	4.27	110.76
4000	33.07	35.65	38.75	39.74	38.91	40.24	41.45	46.99	47.03	46.63	45.57	44.93	43.6	41.66	39.57	37.31	34.1	30.4	33.37	29.11	23.3	6.27	0	105.85
5000	19.91	24.57	28.99	30.8	29.93	31.86	33.98	41.28	41.9	41.5	39.8	39.29	37.79	35.21	32.74	30.06	25.65	19.05	25.93	18.27	0	0	0	99.78
6300	0	0	0	0.95	4.18	11.37	17.42	33.65	33.87	33.11	31.27	30.01	27.52	24.13	19.51	9.74	0	0	0	0	0	0	0	90.65
8000	0	0	0	0	0	0	0	15.97	15.34	12.7	0.32	0	0	0	0	0	0	0	0	0	0	0	0	71.28
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	68.38	69.97	71.08	71.59	71.98	72.38	72.56	73.11	73.46	73.88	74.39	74.96	75.54	76.28	76.97	77.78	78.11	78.86	79.17	78.81	78.12	76.87	75.45	141.69
PNL	75.98	77.59	78.69	79.32	79.63	80	80.16	80.55	80.83	80.99	81.12	81.39	81.58	81.81	81.94	82.05	81.84	81.7	81.41	80.51	79.34	77.37	74.54	83.45

100%L, 12CL

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL

1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL

Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	415
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	578.43
m01	0.00196
pamb	14.4819
tamb	499.042
rhumid	70.57
winds1	0
nprc	1.165
nprb	1.205
ptc	16.8714
ptb	17.4507
wactc	1.756
wactb	9.82
ttc	1105.85
ttb	499.481
ptmix	17.3613
ttmix	593.06
mexpnd	0.484451
grevixp	6580.22
badchan	(26)
bkgnd	409
escdate	04.Dec.96
esctime	16:03:44
DADSdate	97.08.25
DADStime	16:03:44
btchdate	04.Dec.96
btchtime	16:03:44

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 10:47:52 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (i	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	64.43	65.23	65.65	67.17	68.26	68.32	68.96	69.03	69.57	70.39	71.52
100	64.74	64.99	65.38	68.02	67.43	67.81	68.24	68.58	69.41	70.14	70.88
130	64.37	64.92	65.7	66.48	67.38	67.82	67.76	67.62	68.6	68.79	69.4
160	66.84	67.46	67.45	68.14	68.5	68.09	68.98	69.9	70.33	70.97	71.35
200	67.1	67.89	67.5	67.53	68.38	69.63	70.31	70.23	70.66	71.54	72.29
250	68.39	68.73	69.08	70.37	70.88	71.43	72.6	72.76	73.19	74.28	74.58
320	68.38	69.4	69.69	70.57	71.26	71.16	71.03	71.88	72.74	73.41	73.99
400	67.3	68.81	69.02	70.28	70.77	71.31	72.15	72.54	73.67	74.49	75.73
500	67.24	68.17	68.68	69.78	70.45	70.93	71.2	72.44	72.64	73.15	74.03
630	67.01	68.62	69.36	70.6	70.75	71.47	72.11	72.74	73.16	73.68	74.42
800	66.23	68.22	68.42	69.04	69.49	69.63	70.95	70.97	72.3	73.21	74.03
1000	65.61	67.24	67.82	68.46	68.64	69.3	69.79	70.9	72.1	72.23	73.37
1300	64.93	66.6	66.44	66.92	67.71	68.62	68.93	69.66	70.34	70.87	71.58
1600	64.3	65.77	65.22	65.79	66.56	67.32	67.65	68.36	68.85	69.11	70.38
2000	63.58	65.12	64.57	65.23	65.76	66.4	67.29	67.72	68.08	68.4	69.3
2500	62.62	63.85	63.92	64.81	65.07	65.57	66.54	67.06	67.69	67.89	68.38
3200	61.66	62.99	63.19	64.42	64.56	65.3	66.34	66.68	67.19	67.82	68.44
4000	61.12	62.44	62.61	64.2	64.09	65.01	66.66	66.47	66.72	67.33	68.41
5000	60.26	62.14	62.16	63.61	63.07	65.11	66.25	66.65	66.5	67.1	68.65
6300	59.89	62.12	61.71	63.41	63.28	65.14	66.65	67.25	67.19	68.07	68.64
8000	59.81	61.98	61.97	63.97	63.81	65.68	67.62	67.91	68.02	68.79	69.48
10000	58.04	59.92	60.04	62.94	63.17	65.01	65.6	66.38	66.68	66.86	68.44
OASPL	78.58	79.75	79.98	80.94	81.45	82.03	82.76	83.25	83.88	84.51	85.34

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.68	73.47	74.06	74.81	75.19	76.19	77.29	77.76	77.99	78.62	78.63	0	116.15
100	71.56	72.17	72.74	73.56	74.4	75.93	76.96	78.11	78.88	78.35	78.58	0	115.66
130	70.39	70.99	72	73.6	74.87	76.03	76.82	76.81	77.01	76.68	75.14	0	114.9
160	72	72.51	73.56	74.78	75.38	76.42	.77.39	78.11	77.92	77.85	76.63	0	116.06
200	73.49	74.57	74.89	75.39	75.87	76.92	77.06	76.74	76.89	74.84	73.06	0	116.11
250	75.55	76.65	76.35	79.29	79	78.74	77.87	77.71	77.77	76.21	74.21	0	118.35
320	75.42	76.4	77.06	77.89	78.57	76.82	77.47	76.19	75.05	73.46	71.61	0	117.58
400	75.95	76.39	77.16	77.21	77.05	76.82	75.9	74.4	72.52	70.97	69.85	0	117.17
500	74.87	75.5	76.91	77.37	77.5	77.31	75.27	74.07	72.34	70.24	68.93	0	116.71
630	75.51	75.82	76.81	77.42	77.4	75.88	74.04	72.77	71.7	70.66	69.96	0	116.75
800	74.91	75.42	75.72	76.65	75.85	74.35	72.92	71.12	69.91	68.07	66.96	0	115.71
1000	74.37	74.3	74.79	75.24	74.49	72.71	71.4	69.69	68.1	66.36	65.58	0	114.74
1300	72.09	72.84	73.38	73.75	72.55	70.89	69.98	68.32	67.16	64.74	63.58	0	113.2
1600	71.5	72.21	72.66	73.01	71.78	70.4	68.8	67.1	65.64	63.41	62.44	0	112.24
2000	70.5	71.04	71.41	71.95	70.6	68.88	67.6	65.71	63.99	62.22	60.97	0	111.23
2500	69.39	70.01	70.93	71.06	69.82	67.68	66	64.54	63.03	60.93	60.02	0	110.4
3200	69.65	69.85	70.47	70.99	69.53	67.17	64.99	63.62	62.04	59.32	57.9	0	110.12
4000	69.43	69.43	69.8	70.26	68.69	66.18	63.72	62.33	60.84	57.32	56.06	0	109.62
5000	69.56	69.34	69.9	69.78	68.28	65.69	62.75	61.61	59.57	56.15	55.59	0	109.45
6300	69.77	70.02	70.36	70.29	68.29	65.58	62.29	61.27	58.26	54.72	54.67	0	109.78
8000	70.82	70.82	70.82	70.72	69.1	66.66	62.42	61.27	57.84	54.14	54.53	0	110.49
10000	68.68	69.49	70.03	70.44	68.71	65.72	61.45	59.16	56.41	52.04	52.57	0	109.28
OASPL	86.26	86.86	87.63	88.24	88.09	87.88	87.36	87.05	86.79	86.01	84.81	0	128.12

NASA Lewis Allison AST Jet Noise Test 1996

rdg	415
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	578.43
m01	0.00198
pamb	14.4819
tamb	499.042
rhumid	70.57
winds1	0
nprc	1.165
nprb	1.205
ptc	16.8714
ptb	17.4507
wactc	1.756
wactb	9.82
ttc	1105.85
ttb	499.481
ptmix	17.3613
ttmix	593.08
mixpnd	0.484451
grsvixp	6580.22
badchan	(26)
bkgnd	409
escdate	04.Dec.96
esctime	16:03:44
DADSdate	97.08.25
DADStime	16:03:44
bkchdate	04.Dec.96
bkchtime	16:03:44

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:48:01 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1855.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	42.64	43.94	44.75	46.59	47.91	48.14	48.89	48.96	49.5	50.22	51.18	52.1	52.57	52.79	53.02	52.82	53.12	53.38	52.88	51.88	51.03	49.18	0	116.08
100	42.92	43.88	44.45	45.4	47.05	47.81	48.14	48.51	49.31	49.84	50.5	50.94	51.24	51.41	51.74	52	52.82	53.02	53.15	52.7	50.69	47.05	0	115.55
130	42.49	43.54	44.72	45.82	46.98	47.57	47.62	47.51	48.45	48.54	48.98	49.73	50.01	50.82	51.72	52.41	52.86	52.79	51.78	50.74	48.89	45.46	0	114.72
160	44.89	46	46.4	47.4	48.02	47.77	48.77	49.72	50.12	50.65	50.86	51.26	51.46	52.1	52.82	52.82	53.15	53.27	52.96	51.53	49.93	46.76	0	115.79
200	45.02	46.31	46.33	46.69	47.79	49.21	50	49.95	50.34	51.13	51.7	52.66	53.41	53.32	53.31	53.18	53.49	52.77	51.4	50.28	46.86	42.89	0	115.72
250	46.12	46.97	47.74	49.36	50.13	50.86	52.13	52.33	52.72	53.71	53.83	54.54	55.51	56.6	57.01	56.1	55.09	53.33	52.1	50.85	47.67	43.54	0	117.76
320	45.89	47.44	48.36	49.36	50.33	50.4	50.39	51.27	52.1	52.67	53.06	54.23	54.87	55.12	55.39	55.43	54.91	52.65	50.24	47.73	44.41	40.38	0	116.78
400	44.44	46.51	47.16	48.76	49.52	50.24	51.2	51.64	52.73	53.44	54.48	54.44	54.52	54.84	54.35	53.53	52.48	50.62	47.95	44.59	41.23	37.73	0	116.05
500	43.96	45.46	46.43	47.89	48.83	49.51	49.91	51.18	51.34	51.73	52.41	52.97	53.23	54.17	54.06	53.49	52.48	49.42	46.97	43.7	39.64	35.73	0	115.14
630	43.21	45.43	46.66	48.3	48.74	49.66	50.44	51.1	51.49	51.88	52.41	53.21	53.13	53.63	53.62	52.84	50.43	47.54	44.91	42.15	39.17	35.37	0	114.74
800	41.89	44.51	45.23	46.26	47.03	47.37	48.62	48.88	50.18	50.98	51.58	52.13	52.23	52.02	52.31	50.74	48.29	45.7	42.47	39.5	35.37	31.11	0	113.21
1000	40.7	43	44.13	45.19	45.68	46.57	47.19	48.34	49.51	49.51	50.42	51.09	50.61	50.56	50.34	48.77	45.99	43.46	40.21	36.69	32.47	28.28	0	111.75
1300	39.42	41.79	42.2	43.13	44.26	45.41	45.85	46.63	47.26	47.65	48.09	48.29	48.4	48.58	48.26	48.19	43.46	41.25	37.97	34.78	29.7	24.82	0	109.65
1600	38.08	40.31	40.35	41.39	42.52	43.55	44.02	44.78	45.21	45.33	46.36	47.11	47.35	47.21	46.81	44.64	42.15	39.15	35.73	32.09	26.96	21.97	0	108.04
2000	36.5	38.84	38.93	40.08	40.99	41.9	42.93	43.41	43.72	43.9	44.52	45.36	45.41	45.12	44.88	42.45	39.61	36.83	33.07	28.96	24.05	17.13	0	106.25
2500	34.32	36.42	37.17	38.61	39.3	40.08	41.2	41.78	42.36	42.21	42.6	43.18	43.29	43.51	42.77	40.45	36.98	33.63	30.13	25.96	19.84	0	0	104.33
3200	31.57	33.86	34.84	36.65	37.25	38.32	38.53	38.95	40.4	40.85	41.15	41.89	41.49	41.36	40.9	38.23	34.36	30.33	26.82	21.81	0	0	0	102.46
4000	28.24	30.7	31.78	34.1	34.55	35.78	37.61	37.5	37.69	38.07	38.74	39.26	38.57	37.88	37.39	34.39	30.13	25.49	20.54	3.38	0	0	0	99.55
5000	22.79	26.51	27.53	29.89	29.95	32.41	33.86	34.28	34.04	34.35	35.51	35.76	34.68	34.14	32.65	29.46	24.55	15.87	0	0	0	0	0	95.69
6300	0	16.64	18.89	23	24.08	26.9	28.64	29.33	29.15	29.67	29.72	30.02	29.23	28.2	26.25	20.78	-1.47	0	0	0	0	0	0	89.95
8000	0	0	0	0	0	12.14	19.44	19.7	19.33	20.34	20.29	20.9	18.4	13.59	1.15	0	0	0	0	0	0	0	0	79.27
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	55.1	56.66	57.4	58.65	59.54	60.16	60.91	61.42	62.07	62.64	63.22	63.85	64.19	64.59	64.73	64.19	63.58	62.45	61.27	59.9	57.71	54.54	0	126.56
PNL	60.09	62.39	63.05	64.59	65.42	66.3	67.26	67.83	68.52	69.05	69.79	70.24	70.3	70.49	70.22	69.05	67.55	65.24	62.78	60.29	58.24	51.25	0	68.74

NASA Lewis Allison AST Jet Noise Test 1996

rdg	416
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	833.79
m01	0.0024
pamb	14.4837
tamb	498.667
rhumid	72
winds1	0
nprc	1.392
nprb	1.44
ptc	20.1613
ptb	20.8565
wactc	2.784
wactb	13.78
ttc	1176.2
ttb	504.59
ptmix	20.7395
ttmix	617.608
mixpnd	0.684315
grsvixp	13794.2
badchan	(28)
bkgnd	409
escdate	04.Dec.96
esctime	16:22:08
DADSdate	97.08.18
DADStime	16:22:08
btchdate	04.Dec.96
btchtime	16:22:08

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:50:13 1997

Data ambi	14.30 psia
Data ambi	538.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.27	73.78	74.34	74.94	75.57	76.23	76.9	77.57	78.25	78.91	79.55	80.19	80.9	81.79	82.95	84.49	86.49	88.87	91.3	93.42	94.86	95.27	0	128.48
100	75.25	75.93	76.36	76.76	77.3	78.03	78.83	79.53	80.07	80.58	81.18	81.96	82.92	84.02	85.25	86.66	88.38	90.29	91.96	92.89	92.96	92.31	0	128.52
130	76.27	76.19	75.84	75.82	75.86	76.63	77.58	78.28	78.51	78.68	79.28	80.51	82	83.17	84.38	86.25	88.15	89.6	90.68	91.54	91.17	89.44	0	127.29
160	77.79	78.37	78.62	78.76	79	79.48	80.13	80.78	81.31	81.75	82.16	82.66	83.44	84.62	86.24	88.13	90.1	91.53	91.88	91.85	91.45	90.68	0	128.76
200	79.12	79.18	78.98	79.04	79.22	79.45	79.77	80.28	81.04	82.1	83.5	84.8	85.09	85.44	86.41	87.92	89.59	90.41	89.9	89.09	87.86	87.32	0	127.94
250	77.97	78.72	79.32	79.82	80.28	80.59	80.69	80.92	81.5	82.41	83.58	84.63	85.32	86.35	87.36	88.27	89.84	90.86	90.05	88.56	86.98	85.34	0	128.17
320	78.14	78.71	79.21	79.67	80.16	80.57	80.64	81.2	82.03	82.42	83.44	84.51	85.03	86.08	87.4	88.07	88.71	88.84	87.97	86.82	84.9	84.12	0	127.37
400	77.18	78.39	79.27	79.84	80.11	80.37	81.15	81.91	82.57	83.47	84.15	84.93	85.78	86.34	87.28	87.61	87.87	87.48	86.22	85.35	83.96	82.48	0	127.14
500	78.07	78.84	79.18	79.65	80.1	80.65	81.13	81.55	81.87	82.48	83.67	84.43	84.47	85.45	86.83	87.32	87.47	86.88	85.59	84.39	82.85	81.04	0	126.57
630	77.58	78.4	79.07	79.69	80.18	80.52	80.82	81.44	82	82.32	83.44	84.13	84.99	85.44	86.14	86.17	85.86	85.15	84.2	82.74	80.93	79.29	0	125.97
800	77.29	77.95	78.61	79.24	79.72	80.12	80.74	81.52	82.4	83.19	83.48	84.05	85.31	86.11	86.2	85.68	85.54	84.76	83.07	81.57	79.8	78.37	0	125.89
1000	77.13	78.03	78.49	78.85	79.15	79.68	80.34	81.04	81.62	82.02	82.69	83.62	84.43	84.94	85.25	84.54	84.34	83.27	81.68	80.15	78.57	76.87	0	125
1300	76.87	77.59	78.01	78.29	78.74	79.4	79.89	80.25	81.36	81.82	82.11	83.02	84.23	84.78	84.2	83.7	83.53	82.3	80.46	78.7	76.81	74.75	0	124.39
1600	76.35	77.09	77.38	77.71	78.21	78.84	79.33	79.7	80.27	80.81	81.34	82.06	83.29	84.44	84.15	82.73	81.94	81.06	79.3	77.61	75.59	73.03	0	123.63
2000	75.39	76.21	76.65	77	77.5	77.97	78.52	79.22	79.92	80.23	80.78	81.8	82.89	83.66	83.1	81.53	81.22	80.14	77.85	75.85	74.18	71.84	0	122.9
2500	74.27	75.22	75.92	76.6	77.03	77.28	77.77	78.46	79.03	79.16	79.83	80.93	81.62	82.37	81.93	80.66	80.15	78.85	76.5	74.53	72.48	69.99	0	121.9
3200	73.51	74.51	75.33	76.15	76.84	76.94	77.65	77.88	78.53	79.01	79.46	80.04	80.54	81.03	80.96	79.64	78.92	77.48	75.4	73.49	71.45	68.83	0	121.11
4000	72.79	73.77	74.47	75.17	75.53	76.15	77.07	77.28	78.2	78.62	78.61	79.34	79.82	79.72	79.7	78.67	77.77	76.17	73.89	72.36	70.14	67.47	0	120.25
5000	71.29	72.7	73.42	73.89	74.28	75.12	76.15	76.87	77.55	77.49	77.9	78.67	78.6	78.55	78.27	77.19	76.37	74.72	72.42	70.81	68.43	65.95	0	119.19
6300	70.02	71.48	72.18	72.77	73.33	74.11	75.12	76.11	77.67	77.66	76.93	77.97	78.18	77.96	77.23	76.1	74.81	73.29	71.3	69.28	66.89	64.76	0	118.45
8000	68.76	70.17	71.29	72.27	72.8	73.39	74.54	75.58	77.68	77.15	76.75	77.99	77.78	77.28	76.32	75.26	73.97	72.22	70.2	68.16	65.74	64.02	0	117.95
10000	65.84	66.83	68.28	70.25	71.52	71.53	71.53	72.88	75.66	74.99	74.44	75.14	75.48	75.47	74.9	73.54	71.42	69.25	66.95	65.03	62.98	61.18	0	115.71
OASPL	89.41	90.13	90.59	91.03	91.45	91.92	92.45	93.04	93.77	94.27	94.95	95.82	96.56	97.3	97.95	98.41	99.28	99.88	100.02	100.14	100.03	99.47	0	139

NASA Lewis Allison AST Jet Noise Test 1996

rdg	416
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vld	833.79
m01	0.0024
pamb	14.4837
tamb	496.667
rhumid	72
winds1	0
nprc	1.392
nprb	1.44
ptc	20.1613
ptb	20.8565
wactc	2.784
wactb	13.76
ttc	1176.2
ttb	504.59
ptmix	20.7395
ttmix	617.808
mixpnd	0.684315
grevixp	13794.2
badchan	(26)
bkgnd	409
escdate	04.Dec.96
esctime	16:22:08
DADSdate	97.08.18
DADStime	16:22:08
btchdate	04.Dec.96
btchtime	16:22:08

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:50:23 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	51.48	52.49	53.44	54.36	55.23	56.05	56.82	57.53	58.17	58.74	59.21	59.6
100	53.42	54.59	55.42	56.14	56.92	57.83	58.72	59.46	59.96	60.37	60.8	61.34
130	54.4	54.8	54.86	54.96	55.44	56.38	57.44	58.16	58.36	58.43	58.84	59.85
160	55.84	56.91	57.56	58.03	58.52	59.17	59.92	60.6	61.09	61.43	61.67	61.93
200	57.05	57.61	57.82	58.2	58.63	59.04	59.46	60	60.73	61.69	62.92	63.97
250	55.72	56.97	57.99	58.82	59.51	60.02	60.23	60.5	61.04	61.86	62.63	63.63
320	55.65	56.75	57.67	58.47	59.22	59.81	59.99	60.59	61.38	61.67	62.5	63.31
400	54.33	56.09	57.41	58.33	58.87	59.32	60.21	61.01	61.63	62.41	62.92	63.43
500	54.79	56.13	56.93	57.77	58.49	59.24	59.84	60.3	60.58	61.05	62.05	62.54
630	53.77	55.21	56.36	57.37	58.16	58.71	59.13	59.8	60.32	60.51	61.44	61.83
800	52.95	54.24	55.41	56.44	57.23	57.85	58.61	59.43	60.27	60.92	61	61.26
1000	52.21	53.78	54.78	55.57	56.19	58.95	57.74	58.48	59.02	59.29	59.74	60.35
1300	51.16	52.78	53.77	54.49	55.27	58.18	56.61	57.2	58.28	58.59	58.64	59.22
1600	50.14	51.84	52.53	53.32	54.16	55.04	55.68	56.1	58.61	57.01	57.29	57.86
2000	48.31	49.92	51	51.86	52.73	53.47	54.17	54.93	55.57	55.73	58.01	56.66
2500	45.99	47.8	49.2	50.42	51.26	51.78	52.42	53.17	53.7	53.67	54.05	54.74
3200	43.42	45.4	47	48.41	49.37	49.99	50.84	51.14	51.72	52.02	52.19	52.33
4000	39.96	42.08	43.69	45.1	45.99	46.84	48.05	48.33	49.2	49.41	49.01	49.2
5000	34.25	37.03	38.88	40.22	41.21	42.46	43.78	44.52	45.11	44.81	44.79	44.92
6300	26.17	29.47	31.59	33.22	34.8	35.96	37.22	38.34	39.78	39.47	38.13	38.39
8000	0	12.78	19.94	23.21	25.01	26.62	28.4	29.6	31.61	30.64	29.54	29.74
10000	0	0	0	0	0	0	0	0	9.51	0	0	0
OASPL	65.82	67	67.85	68.61	69.29	69.94	70.54	71.16	71.76	72.24	72.85	73.46
PNL	71.99	73.57	74.76	75.8	76.82	77.3	78	78.66	79.3	79.54	79.92	80.49

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60	60.49	61.17	62.12	63.41	64.86	66.39	67.31	67.27	65.82	0	128.4
100	61.99	62.69	63.42	64.25	65.27	66.34	67	66.72	65.3	62.78	0	128.39
130	61.02	61.79	62.51	63.78	64.97	65.57	65.64	65.27	63.4	59.78	0	127.09
160	62.38	63.16	64.28	65.57	66.83	67.4	66.73	65.26	63.54	60.81	0	128.47
200	63.93	63.67	64.33	65.24	66.19	66.13	64.59	62.5	59.7	57.17	0	127.53
250	63.99	64.6	65.11	65.39	66.23	66.34	64.47	61.66	58.45	54.7	0	127.58
320	63.49	64.13	64.91	64.93	64.61	63.81	62.01	59.28	55.86	52.69	0	126.53
400	63.91	64.02	64.43	64.06	63.53	62.19	59.76	57.44	54.27	50.37	0	125.85
500	62.2	62.73	63.55	63.33	62.84	60.62	58.5	55.74	52.21	47.79	0	124.95
630	62.29	62.26	62.35	61.64	60.44	58.64	58.34	53.23	49.3	44.79	0	123.9
800	62.12	62.4	61.86	60.55	59.45	57.52	54.42	51.17	47.11	42.58	0	123.32
1000	60.72	60.7	60.34	58.81	57.6	55.3	52.19	48.77	44.72	39.63	0	121.92
1300	59.96	59.95	58.69	57.31	56.09	53.56	50.12	46.29	41.68	35.92	0	120.78
1600	58.43	58.97	57.94	55.61	53.7	51.44	47.95	44.08	39.11	32.51	0	119.4
2000	57.26	57.38	56.02	53.46	51.95	49.37	45.19	40.79	35.95	29.18	0	117.9
2500	54.9	54.98	53.64	51.31	49.48	46.53	42.11	37.44	31.78	24.29	0	115.82
3200	52.2	51.93	50.9	48.34	46.13	42.82	38.39	33.4	27.2	16.68	0	113.47
4000	49.02	48.07	46.93	44.46	41.77	37.94	32.86	27.69	18.97	0	0	110.22
5000	43.99	42.84	41.29	38.45	35.48	31.15	25.15	18.07	0	0	0	105.54
6300	37.57	36.04	33.6	30.23	25.82	19.09	0	0	0	0	0	99.08
8000	27.9	25.37	21.27	13.34	0	0	0	0	0	0	0	89.81
10000	0	0	0	0	0	0	0	0	0	0	0	86.35
OASPL	73.84	74.21	74.56	74.72	75.12	75.1	74.43	73.49	71.99	69.59	0	137.87
PNL	80.85	80.97	80.53	79.8	79.22	78.33	76.11	73.46	70.52	86.82	0	80.01

NASA Lewis Allison AST Jet Noise Test 1996

rdg	417
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.54
m01	0.00255
pamb	14.4869
tamb	499.155
rhumid	72.95
winds1	0
nprc	1.54
nprb	1.61
ptc	22.3098
ptb	23.3239
wactc	2.96
wactb	16.104
ttc	1329.84
ttb	507.766
ptmix	23.1658
ttmix	636.135
mixpnd	0.760604
grsvixp	17949 3
badchan	(26)
bkgnd	409
escdate	04.Dec.96
esctime	16:35:21
DADSdate	04.Dec.96
DADStime	16:35:21
btchdate	04.Dec.96
btchtime	16:35:21

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:58:02 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	78.85	79.37	79.88	80.38	80.88	81.39	81.92	82.48	83.08	83.73	84.44	85.23
100	79.87	80.7	81.39	81.97	82.49	82.97	83.45	83.95	84.49	85.1	85.81	86.85
130	80.31	80.8	81.12	81.32	81.46	81.57	81.73	81.97	82.35	82.91	83.71	84.78
160	81.71	82.34	82.77	83.07	83.28	83.46	83.87	83.97	84.39	84.99	85.82	86.92
200	81.85	82.56	83.13	83.6	84	84.37	84.77	85.23	85.78	86.48	87.35	88.41
250	82.07	82.89	83.2	83.64	84.03	84.43	84.86	85.36	85.97	86.7	87.6	88.69
320	82.82	83.37	83.81	84.17	84.5	84.83	85.18	85.61	86.15	86.82	87.68	88.73
400	81.6	82.47	83.28	83.99	84.6	85.1	85.58	86.15	86.87	87.72	88.69	89.7
500	82.04	82.84	83.48	84.03	84.51	84.98	85.45	85.93	86.44	87.05	87.81	88.72
630	81.77	82.59	83.27	83.85	84.38	84.87	85.42	86.07	86.81	87.51	88.24	88.88
800	81.54	82.37	83.13	83.82	84.42	84.9	85.32	86.01	86.73	87.18	88.1	88.83
1000	81.4	82.1	82.72	83.3	83.8	84.26	84.87	85.7	86.51	87.18	88.09	88.67
1300	81.06	81.73	82.2	82.67	83.22	83.89	84.53	85.17	85.98	86.95	87.79	88.76
1600	80.66	81.48	81.98	82.38	82.79	83.36	84.12	85.02	85.91	86.62	87.59	88.58
2000	79.99	80.89	81.48	81.95	82.46	83.18	83.78	84.45	85.3	86.25	87.08	88.13
2500	79.14	80.23	80.85	81.32	81.88	82.42	83.15	83.97	84.82	85.25	86.33	87.67
3200	78.27	79.34	80.09	80.66	81.22	81.92	82.7	83.28	83.81	84.45	85.29	86.29
4000	77.29	78.39	79.09	79.87	80.25	81.23	82.38	82.79	83.04	83.56	84.39	85.12
5000	75.96	77.18	77.87	78.38	78.84	79.98	81.34	81.93	82.03	82.41	83.09	83.61
6300	74.76	76.05	76.73	77.2	77.62	78.99	80.37	81.25	81.67	81.98	82.33	82.63
8000	73.76	75.16	75.9	76.48	77.12	78.38	79.86	80.81	81.21	81.55	82.14	82.28
10000	70.8	72.07	73.16	74.29	75.32	76.49	77.4	78.2	78.72	78.99	79.54	79.09
OASPL	93.66	94.44	95.03	95.54	96.01	96.53	97.11	97.71	98.33	99	99.84	100.73

distance: (i	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	86.16	87.31	88.74	90.51	92.71	95.22	97.67	99.69	100.88	100.87	0	134.45
100	87.7	88.99	90.57	92.47	94.71	97.16	99.46	101.24	102.09	101.61	0	135.92
130	86.13	87.76	89.64	91.77	94.12	96.55	98.67	100.05	100.23	98.81	0	134.56
160	88.25	89.75	91.38	93.07	94.77	96.36	97.58	98.2	98.4	98.45	0	134.23
200	89.62	90.9	92.19	93.43	94.55	95.47	96.07	96.16	95.74	94.9	0	133.48
250	89.94	91.3	92.72	94.08	95.15	95.85	96.08	95.77	94.87	93.29	0	133.58
320	89.93	91.23	92.52	93.87	94.53	94.95	94.74	93.77	92.33	90.97	0	132.89
400	90.63	91.41	92.09	92.7	93.22	93.27	92.62	91.92	90.95	88.98	0	132.27
500	89.66	90.84	92.04	92.75	93.23	93.1	92.37	91.39	89.78	87.87	0	131.91
630	89.54	90.66	91.37	91.86	91.57	90.9	90.14	89.09	87.65	85.91	0	131.11
800	89.71	90.63	91.16	91.06	90.69	90.2	88.85	88.06	87.13	85.13	0	130.79
1000	89.26	90.06	90.37	90.03	89.54	88.85	88.04	86.95	85.39	83.17	0	130.14
1300	89.44	89.77	89.56	89.14	88.86	87.86	86.27	84.92	83.73	82.34	0	129.61
1600	89.53	90	89.21	88.27	87.57	86.35	84.8	83.92	83.33	81.3	0	129.22
2000	89.45	89.92	88.31	87.23	86.55	85.31	83.34	82.17	81.39	79.62	0	128.67
2500	88.71	89.1	87.53	86.28	85.44	83.9	81.94	80.61	79.27	76.85	0	127.86
3200	86.93	87.21	86.57	85.19	84.5	82.65	80.77	79.58	77.77	74.87	0	126.72
4000	85.17	85.3	85.04	83.87	83.41	81.78	79.58	78.42	75.94	73.01	0	125.56
5000	83.53	83.65	83.29	82.25	81.66	79.9	78.06	77.04	73.7	70.64	0	124.16
6300	82.48	82.59	81.98	80.72	80.39	78.61	77.04	75.49	71.62	69.66	0	123.19
8000	81.48	81.43	80.69	79.59	79.64	77.7	75.9	74.12	70.21	68.74	0	122.5
10000	78.73	79.03	78.36	76.97	76.98	75.28	72.8	70.91	66.91	64.95	0	119.93
OASPL	101.63	102.54	103.18	103.88	104.8	105.72	106.66	107.45	107.7	107.04	0	144.78

NASA Lewis Allison AST Jet Noise Test 1996

rdg	417
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.54
m01	0.00255
pamb	14.4869
tamb	499.155
rhumid	72.95
winds1	0
nprc	1.54
nprb	1.61
ptc	22.3098
ptb	23.3239
wactc	2.98
wactb	16.104
ttc	1329.84
ttb	507.786
ptmix	23.1656
ttmix	636.135
mixpnd	0.760604
grsvixp	17949.3
badchan	(26)
bkgnd	409
eacdate	04.Dec.96
eactime	16:35:21
DADSdate	04.Dec.96
DADStime	16:35:21
blchdate	04.Dec.96
blchtime	16:35:21

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 04:58:10 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5785.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	57.07	58.06	58.98	59.79	60.53	61.21	61.84	62.44	63.01	63.56	64.09	64.64	65.26	66.01	66.95	68.14	69.64	71.31	72.77	73.58	73.3	71.42	0	134.38
100	58.05	59.36	60.45	61.36	62.12	62.77	63.34	63.87	64.38	64.89	65.43	66.04	66.76	67.66	68.75	70.06	71.59	73.2	74.5	75.07	74.43	72.07	0	135.77
130	58.43	59.41	60.14	60.66	61.04	61.33	61.58	61.86	62.2	62.66	63.29	64.11	65.15	66.37	67.77	69.31	70.95	72.53	73.63	73.78	72.46	69.14	0	134.34
160	59.76	60.88	61.72	62.33	62.79	63.15	63.46	63.79	64.17	64.67	65.34	66.19	67.19	68.3	69.43	70.52	71.5	72.23	72.42	71.81	70.46	68.58	0	133.91
200	59.77	60.99	61.97	62.76	63.41	63.96	64.46	64.95	65.47	66.06	66.76	67.58	68.46	69.33	70.11	70.74	71.13	71.19	70.74	69.57	67.57	64.74	0	133.03
250	59.81	60.94	61.87	62.64	63.29	63.86	64.4	64.94	65.5	66.13	66.86	67.69	68.8	69.55	70.45	71.17	71.53	71.34	70.49	68.87	66.34	62.67	0	132.92
320	60.32	61.39	62.26	62.97	63.56	64.07	64.54	65	65.5	66.07	66.74	67.53	68.39	69.26	70.02	70.53	70.63	70.13	68.8	66.45	63.3	59.73	0	132
400	58.74	60.16	61.41	62.48	63.35	64.04	64.64	65.25	65.92	66.67	67.45	68.19	68.76	69.1	69.23	69.17	68.86	67.97	66.15	64.03	61.24	56.87	0	131.02
500	58.76	60.13	61.24	62.15	62.91	63.57	64.15	64.67	65.14	65.63	66.2	66.83	67.41	68.13	68.76	68.76	68.4	67.26	65.27	62.75	59.16	54.6	0	130.21
630	57.97	59.39	60.56	61.54	62.36	63.06	63.73	64.43	65.12	65.7	66.22	66.57	66.84	67.47	67.57	67.11	66.13	64.36	62.28	59.59	56.04	51.47	0	128.98
800	57.19	58.66	59.94	61.04	61.94	62.63	63.18	63.92	64.59	64.91	65.62	66.04	66.5	66.91	66.81	65.93	64.81	62.97	60.22	57.85	54.4	49.27	0	128.14
1000	56.49	57.86	59.01	60.02	60.84	61.53	62.27	63.15	63.92	64.45	65.14	65.39	65.55	65.63	65.46	64.3	62.8	60.69	58.57	55.57	51.53	45.87	0	126.99
1300	55.55	56.91	57.95	58.86	59.75	60.86	61.44	62.13	62.69	63.72	64.32	64.97	65.19	64.95	64.04	62.76	61.4	59.1	55.91	52.5	48.6	43.5	0	125.94
1600	54.45	55.99	57.12	57.98	58.75	59.57	60.47	61.42	62.27	62.83	63.55	64.18	64.67	64.53	63	61.14	59.33	56.72	53.44	50.35	46.83	40.76	0	124.98
2000	52.91	54.6	55.83	56.81	57.69	58.67	59.42	60.15	60.95	61.74	62.3	62.98	63.81	63.63	61.23	59.16	57.29	54.56	50.71	47.15	43.2	36.98	0	123.66
2500	50.86	52.81	54.12	55.14	56.09	56.82	57.82	58.7	59.3	59.77	60.56	61.5	61.99	61.69	59.24	56.91	54.75	51.58	47.53	43.5	38.59	31.15	0	121.81
3200	48.19	50.22	51.74	52.91	53.92	54.95	55.91	56.54	57.04	57.49	58.01	58.58	58.63	58.13	56.49	53.91	51.71	48.19	43.74	39.46	33.61	24.79	0	119.07
4000	44.43	46.66	48.29	49.59	50.7	52.09	53.35	53.85	54.04	54.36	54.81	55.04	54.43	53.66	52.26	49.67	47.46	43.66	38.61	33.68	26.32	11.16	0	115.52
5000	38.95	41.54	43.29	44.63	45.74	47.3	48.96	49.59	49.61	49.74	49.96	49.86	48.96	48	46.27	43.53	40.98	36.26	30.89	25.13	5.87	0	0	110.47
6300	31.06	34.09	36.16	37.71	39.15	40.89	42.53	43.47	43.75	43.75	43.55	43.06	41.9	40.75	38.43	34.85	31.72	26.3	18.05	0	0	0	0	103.79
8000	18.95	22.92	26.03	28.14	29.92	31.9	33.82	34.92	35.22	35.13	34.96	34.14	31.9	30	26.83	21.93	16.07	0	0	0	0	0	0	94.6
10000	0	0	0	0	0	9.79	15.61	17.8	18.41	18.05	17.63	13.63	2.46	0	0	0	0	0	0	0	0	0	0	75.9
OASPL	69.97	71.24	72.27	73.13	73.85	74.48	75.06	75.65	76.23	76.8	77.45	78.11	78.75	79.37	79.82	80.22	80.64	80.96	81.14	80.86	79.69	77.18	0	143.56
PNL	76.54	78.24	79.49	80.5	81.38	82.21	83.05	83.78	84.36	84.88	85.55	86.24	86.68	86.75	85.8	85.34	84.95	84.12	82.76	81.06	78.95	75.24	0	85.95

NASA Lewis Allison AST Jet Noise Test 1996

rdg	416
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1002.9
m01	0.0017
pamb	14.4877
tamb	498.714
rhumid	75.34
winds1	0
nprc	1.749
nprb	1.82
ptc	25.339
ptb	26.3676
wactc	3.393
wactb	18.313
ttc	1427.84
ttb	511.038
ptmix	26.2068
ttmix	654.349
mixpnd	0.799666
grsvixp	21768.9
badchan	{26}
bkgnd	409
escdate	04.Dec.96
esctime	16:50:37
DADSdate	97.08.18
DADStime	16:50:37
btchdate	04.Dec.96
btchtime	16:50:37

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 15:37:38 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	185	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	83.99	84.84	85.26	85.35	85.24	85.03	84.83	84.74	84.88	85.35	86.25	87.85	89.47	91.58	93.9	96.29	98.63	100.82	102.73	104.23	105.2	105.49	0	139.17
100	83.88	84.56	85.06	85.42	85.71	85.97	86.25	86.6	87.05	87.66	88.46	89.5	90.82	92.44	94.38	96.65	99.26	102.03	104.52	106.21	106.59	105.19	0	140.36
130	85.5	85.97	86.23	86.34	86.36	86.34	86.36	86.47	86.73	87.2	87.95	89.01	90.41	92.15	94.23	96.67	99.47	102.44	105.09	106.91	107.37	105.98	0	140.91
160	86.88	87.61	88.03	88.2	88.23	88.18	88.13	88.17	88.38	88.63	89.6	90.75	92.22	93.97	95.94	98.07	100.33	102.59	104.62	106.12	106.84	106.55	0	140.98
200	87.1	87.55	87.78	87.9	87.98	88.1	88.29	88.51	88.83	89.41	90.39	91.8	93.23	94.75	96.35	97.91	99.29	100.37	101.08	101.36	101.5	101.81	0	138.22
250	86.01	86.33	86.62	86.89	87.2	87.58	88.06	88.67	89.41	90.32	91.39	92.65	94.07	95.61	97.19	98.74	100.26	101.19	101.2	101.16	101	100.26	0	138.48
320	87.25	87.69	87.94	88.07	88.14	88.22	88.37	88.65	89.14	89.88	90.94	92.34	93.92	95.51	96.94	98.09	98.85	99.2	99.22	98.97	98.39	97.36	0	137.26
400	86.11	86.6	87.07	87.53	88.03	88.57	89.15	89.74	90.35	91.07	91.94	93	94.25	95.69	97.01	97.96	98.73	98.66	97.9	96.89	95.79	94.33	0	136.84
500	86.36	86.68	87	87.33	87.67	88.02	88.47	89.06	89.73	90.66	91.74	92.39	93.98	95.18	96.23	97.37	98.1	98.01	97.2	95.82	93.87	91.86	0	136.17
630	86.26	86.71	87.07	87.43	87.83	88.31	88.87	89.49	90.15	90.65	91.56	92.61	94.22	95.27	95.95	96.34	97.02	96.51	95.44	94.12	92.58	90.81	0	135.59
800	86.5	87.03	87.4	87.69	87.96	88.26	88.65	89.19	89.89	90.74	91.69	92.7	93.78	94.78	95.27	95.42	95.6	94.97	93.91	92.49	90.58	89.27	0	134.88
1000	86.17	86.69	87.03	87.29	87.57	87.95	88.51	89.2	89.89	90.58	91.54	92.87	94.15	94.4	94.22	94.19	94.2	93.58	92.47	91.28	90.2	89.38	0	134.3
1300	85.82	86.47	86.96	87.34	87.67	88.01	88.44	88.99	89.74	90.76	92.13	93.67	94.78	94.96	93.96	93.14	92.99	92.42	91.71	91.37	90.99	90.49	0	134.28
1600	85.85	86.72	87.29	87.65	87.9	88.15	88.51	89.05	89.91	91.1	92.63	94.82	96.7	96.05	93.22	92.1	91.68	91.05	90.47	90.53	91.05	91.26	0	134.61
2000	85.96	86.82	87.23	87.47	87.69	88.03	88.51	89.16	90.07	91.33	93.14	95.72	96.28	97.23	92.9	91.18	90.59	89.83	89.16	89.73	90.75	91	0	135.05
2500	85.89	86.93	87.4	87.57	87.64	87.79	88.14	88.66	89.64	91.24	93.54	96.08	96.2	97.53	92.03	90.27	89.37	88.31	87.39	87.15	87.31	87.63	0	134.65
3200	86.22	87.28	87.58	87.8	87.82	87.81	88	88.31	89.08	90.4	92.33	94.87	96.49	95.64	91.43	89.56	88.87	87.6	85.8	84.57	83.26	82.78	0	133.66
4000	86.55	87.78	87.84	87.99	88.17	88.41	88.88	88.71	89	89.79	91.45	93.65	94.97	93.58	90.2	88.56	87.89	86.25	84.34	83.44	81.12	79.93	0	132.82
5000	85.6	87.2	87.45	87.54	87.48	88.04	88.71	88.86	88.76	89.32	90.65	92.74	94.27	92.82	88.9	86.95	86.5	85.05	83.01	81.73	78.21	77.95	0	132.13
6300	83.99	85.69	86.17	86.4	86.54	87.18	88.11	88.56	88.8	89.29	90.17	92.22	93.83	92.43	88.44	85.81	85.23	83.98	82.27	80.6	77.38	76.76	0	131.55
8000	83.04	84.52	84.84	85.16	85.55	86.44	87.45	88.01	88.36	89.07	90.38	92.49	93.8	92.25	87.76	85.36	84.9	83.43	81.25	79.38	76.56	76.03	0	131.25
10000	79.97	80.9	81.46	82.53	83.65	84.47	84.84	85.12	85.54	86.4	87.83	89.57	91.05	90.33	86.79	83.74	82.69	80.65	77.91	76.8	73.72	73.01	0	128.75
OASPL	99.16	99.93	100.26	100.54	100.74	101.04	101.44	101.86	102.42	103.26	104.56	106.26	107.94	108.07	107.67	108.53	109.8	111.01	112.23	113.27	113.62	112.93	0	150.11

NASA Lewis Allison AST Jet Noise Test 1996

rdg	418
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1002.9
m01	0.0017
pamb	14.4877
tamb	498.714
rhumid	75.34
winds1	0
nprc	1.749
nprb	1.82
ptc	25.339
ptb	26.3676
wactc	3.393
wactb	18.313
ttc	1427.84
ttb	511.038
ptmix	26.2068
ttmix	654.349
mixpnd	0.799666
grsvixp	21768.9
badchan	(26)
bkgnd	409
escdate	04.Dec.96
esctime	16:50:37
DADSdate	97.08.18
DADStime	16:50:37
btchdate	04.Dec.96
btchtime	16:50:37

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 15:37:43 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	62.21	63.54	64.35	64.77	64.9	64.85	64.75	64.7	64.81	65.17	65.91	67.07
100	62.06	63.23	64.12	64.81	65.34	65.77	66.15	66.52	66.94	67.45	68.08	68.68
130	63.63	64.59	65.25	65.68	65.94	66.09	66.21	66.36	66.58	66.96	67.53	68.35
160	64.93	66.16	66.97	67.47	67.74	67.88	67.92	67.90	68.17	68.51	69.12	70.02
200	65.03	65.97	66.62	67.06	67.39	67.89	67.98	68.23	68.52	69	69.81	70.98
250	63.75	64.59	65.29	65.9	66.48	67.01	67.6	68.24	68.95	69.75	70.64	71.65
320	64.75	65.72	66.4	66.87	67.2	67.46	67.72	68.04	68.49	69.12	70.01	71.15
400	63.25	64.28	65.2	66.02	66.78	67.51	68.21	68.84	69.41	70.01	70.7	71.49
500	63.06	63.96	64.75	65.45	66.06	66.81	67.17	67.8	68.44	69.25	70.14	70.51
630	62.47	63.51	64.36	65.11	65.81	66.5	67.17	67.83	68.46	69.03	69.55	70.3
800	62.14	63.31	64.2	64.9	65.47	65.99	66.52	67.1	67.76	68.48	69.22	69.93
1000	61.26	62.45	63.33	64.02	64.61	65.22	65.91	66.65	67.3	67.85	68.58	69.59
1300	60.3	61.66	62.71	63.54	64.21	64.79	65.35	65.95	66.65	67.53	68.66	69.64
1600	59.63	61.24	62.41	63.25	63.86	64.35	64.85	65.44	66.26	67.3	68.58	70.41
2000	58.85	60.52	61.57	62.31	62.91	63.52	64.16	64.86	65.71	66.81	68.35	70.55
2500	57.59	59.49	60.65	61.37	61.65	62.29	62.81	63.39	64.31	65.75	67.76	69.69
3200	56.06	58.12	59.21	60.02	60.48	60.79	61.17	61.56	62.29	63.44	65.07	66.96
4000	53.63	56	57	57.87	58.55	59.14	59.63	59.76	59.99	60.55	61.62	63.5
5000	48.87	51.59	52.9	53.63	54.36	55.39	56.29	56.46	56.25	56.58	57.54	59.02
6300	40.3	43.78	45.68	46.98	47.87	49.02	50.27	50.74	50.89	51.09	51.36	52.62
8000	29.26	33.21	35.31	37.06	38.38	39.97	41.51	42.16	42.26	42.55	43.1	44.29
10000	0	3.83	15.1	20.06	23.06	25.42	26.75	27.33	27.55	27.94	28.41	28.75
OASPL	74.79	75.94	76.77	77.39	77.87	78.3	78.73	79.18	79.72	80.4	81.3	82.42
PNL	82.65	84.31	85.36	86.1	86.65	87.16	87.7	88.22	88.69	89.87	91.25	92.88

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	68.56	70.29	72.11	73.92	75.56	76.92	77.83	78.12	77.61	76.04	0	139.06
100	69.89	71.11	72.56	74.24	76.14	78.06	79.56	80.04	78.93	75.65	0	140.21
130	69.43	70.76	72.36	74.2	76.29	78.42	80.06	80.65	79.61	76.3	0	140.67
160	71.17	72.51	73.96	75.52	77.06	78.47	79.47	79.73	76.91	76.67	0	140.6
200	72.07	73.17	74.27	75.22	75.87	76.06	75.74	74.76	73.33	71.64	0	137.74
250	72.74	73.86	74.92	75.85	76.64	76.67	75.6	74.26	72.48	69.65	0	137.79
320	72.39	73.55	74.45	74.96	74.95	74.37	73.27	71.64	69.34	66.12	0	136.31
400	72.39	73.37	74.14	74.43	74.4	73.38	71.42	68.99	66.09	62.23	0	135.56
500	71.73	72.47	72.96	73.4	73.29	72.18	70.13	67.2	63.28	58.64	0	134.45
630	71.51	72.08	72.16	71.81	71.6	70.01	67.6	64.63	60.96	56.35	0	133.39
800	70.6	71.06	70.93	70.29	69.52	67.75	65.27	62.07	57.84	53.38	0	132.19
1000	70.44	70.15	69.32	68.47	67.47	65.63	63.01	59.86	56.3	52.03	0	131.1
1300	70.51	70.12	68.44	66.76	65.54	63.67	61.33	58.93	55.82	51.61	0	130.51
1600	71.61	70.56	67.01	64.96	63.41	61.39	59.06	56.91	54.47	50.61	0	130.27
2000	72.81	70.93	65.83	63.12	61.33	59.08	56.53	54.68	52.52	48.32	0	130
2500	71.48	70.12	63.76	60.91	58.67	55.99	53.03	50.17	46.85	42.22	0	128.85
3200	68.22	66.61	61.35	58.23	56.06	52.95	48.79	44.49	39.15	32.86	0	126.14
4000	64.17	61.91	57.36	54.35	51.9	48.04	43.39	38.82	31.51	22.77	0	122.86
5000	59.88	57.11	51.89	48.2	45.62	41.45	35.86	30.12	20.25	0	0	116.58
6300	53.24	50.45	44.74	39.87	36.45	31.83	25.36	13.05	0	0	0	112.25
8000	44.27	40.75	33.87	28.58	23.96	13.81	0	0	0	0	0	103.31
10000	28.11	24.32	12.47	0	0	0	0	0	0	0	0	87.87
OASPL	83.6	83.99	84.24	84.93	85.72	86.34	86.76	86.7	85.59	82.96	0	146.7
PNL	94.2	93.48	90.56	90.2	90.06	89.52	88.62	87.67	85.66	82.8	0	91.92

NASA Lewis Allison AST Jet Noise Test 1996

rdg 423
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
moxbld CONV
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 586.4
m01 0.20275
pamb 14.4497
tamb 498.771
rhumid 74.83
winds1 0
nprc 1.175
nprb 1.215
ptc 16.9784
ptb 17.5564
wactc 1.75
wactb 9.539
ttc 1130.49
ttb 510.149
ptmix 17.4868
ttmix 606.313
mixpnd 0.485737
grsvixp 6619.87
badchan (26)
bkgnd 410
escdate 04.Dec.96
esctime 17:29:38
DADSdate 97.06.20
DADStime 17:29:38
btchdate 04.Dec.96
btchtime 17:29:38
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 15:57.27 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.45	60.51	61.37	62.11	62.78	63.32	63.8	64.22	64.57	64.86	65.11	65.35	65.59	65.86	66.18	66.56	67.02	67.53	68.02	68.46	68.88	69.43	70.48	108.31
100	58.03	60.07	60.51	61.27	61.99	61.86	61.45	61.94	62.3	62.96	63.2	63.64	64.64	65.3	65.9	66.53	67.09	67.6	67.96	67.92	67.64	67.67	68.15	107.34
130	59.76	60.66	61.64	62.53	63.19	63.49	63.55	63.49	63.41	63.37	63.42	63.58	63.88	64.34	64.96	65.76	66.73	67.79	68.74	69.45	69.9	70.17	70.44	108
160	59.67	60.5	61.09	61.49	61.77	61.97	62.14	62.33	62.57	62.89	63.38	64.2	65.32	66.06	66.46	66.79	67.16	67.53	67.87	68.17	68.36	68.33	67.98	107.68
200	60.51	61.33	61.65	63.63	63.49	64.53	64.78	64.06	65.27	65.94	66.18	67.03	67.14	67.63	68.28	68.15	68.2	68.94	68.08	67.09	66.6	65.89	66.16	109.01
250	65.25	67.42	68.55	69.15	69.32	69.46	69.44	69.55	69.88	70.44	71.23	71.84	72.71	73.56	74.22	74.54	74.49	74.12	73.5	72.6	71.53	70.58	69.89	114.49
320	65.4	66.77	67.65	68.19	68.53	68.77	69	69.29	69.71	70.26	70.89	71.49	72.07	72.63	73.17	73.6	73.75	73.47	72.85	71.36	69.78	67.78	63.65	113.74
400	63.39	65.91	66.81	66.93	67.11	67.98	68.92	69.68	70.37	70.95	71.39	71.76	72.25	72.88	73.13	73	72.58	71.84	70.61	69.06	67.58	66.36	64.41	113.33
500	63.82	66.18	66.9	67.13	67.57	68.16	68.8	69.47	70.21	71	71.79	72.4	72.8	73.06	73.27	73.36	73.23	72.61	71.33	69.6	67.64	66.44	65.14	113.65
630	65.15	67.64	68.53	68.86	69.21	69.89	70.23	70.74	71.2	71.61	71.95	72.22	72.56	72.95	73.22	73	72.21	70.95	69.27	67.58	66.29	65.58	65.41	113.78
800	63.76	65.71	66.05	68.19	66.74	67.4	68.42	69.2	69.8	70.4	71.01	71.53	71.84	71.97	71.9	71.45	70.4	68.83	67.12	65.39	63.86	62.92	63.06	112.31
1000	63.52	65.42	65.68	65.76	66.37	67.49	68.6	69.41	70.23	70.76	71	71.25	71.16	70.73	70.45	70.04	69	67.36	65.55	63.87	62.5	61.72	61.96	111.8
1300	62.05	63.7	64.18	64.49	65.03	65.91	66.9	67.68	68.15	68.29	68.22	68.07	68.05	68.12	68.55	68.31	66.88	65.07	63.37	61.85	60.62	60.02	60.45	109.6
1600	60.81	62.35	62.6	62.78	63.45	64.43	65.36	66.02	66.42	66.54	66.87	67.25	67.64	67.8	68.25	68.06	66.63	64.72	62.86	61.15	59.62	58.61	59.03	108.56
2000	59.97	61.65	62.11	62.49	63.19	64.06	65.28	65.97	65.99	65.57	65.56	66.44	66.61	66.65	66.86	66.41	65.17	63.21	61.32	59.75	58.56	57.84	57.87	107.69
2500	59.59	61.19	61.54	61.81	62.81	63.77	64.92	65.62	65.5	64.87	64.53	65.26	65.86	65.9	66.09	65.68	64.2	62.28	60.42	58.69	57.16	56.26	56.52	106.99
3200	58.98	60.98	61.44	61.94	62.89	64.07	65.43	65.87	65.82	65.58	65.81	66.45	66.56	66.02	66.05	65.59	63.94	61.91	60	58.28	56.78	55.82	55.82	107.35
4000	58.8	61.05	61.91	62.3	63.03	64.3	65.67	66.14	66.04	65.85	66.02	66.62	66.58	65.73	65.42	64.9	63.45	61.53	59.5	57.43	55.66	54.58	54.56	107.36
5000	58.64	61.2	62.25	62.61	63.16	64.5	65.98	66.36	66.26	66.24	66.5	66.88	66.87	66	65.61	65.02	63.54	61.66	59.63	57.58	55.77	54.66	54.56	107.62
6300	59.18	61.73	62.87	63.33	63.69	64.95	66.98	67.59	67.4	67.19	66.93	67.47	67.82	67.12	66.4	65.41	63.61	61.94	59.93	57.98	56.25	55.28	55.1	108.4
8000	60.08	62.83	63.62	64.6	64.92	65.87	67.89	68.39	68.23	67.99	68.04	68.57	68.8	68.03	66.84	65.59	64.27	62.78	60.84	58.74	56.88	55.74	55.34	109.29
10000	59.86	61.5	62.51	63.58	64.63	65.45	66.33	66.75	66.75	66.5	66.56	66.44	66.85	66.71	65.88	64.85	63.42	61.51	59.62	57.57	55.51	54.16	53.79	107.94
OASPL	75.27	77.21	77.96	78.41	78.86	79.55	80.37	80.88	81.24	81.55	81.9	82.37	82.74	82.94	83.13	83.06	82.62	81.97	81.08	80.11	79.27	78.67	78.39	123.99

NASA Lewis Allison AST Jet Noise Test 1996

rdg	423
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	588.4
m01	0.20275
pamb	14.4497
tamb	496.771
rhumid	74.83
winds1	0
nprc	1.175
nprb	1.215
ptc	16.9784
ptb	17.5564
waclc	1.75
wactb	9.539
ttc	1130.49
ttb	510.149
ptmix	17.4868
ttmix	606.313
mixpnd	0.485737
gravixp	8619.87
badchan	(26)
bkgnd	410
escdate	04.Dec.96
esctime	17:29:38
DADSdate	97.08.20
DADStime	17:29:38
btchdate	04.Dec.96
btchtime	17:29:38

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Fri Aug 22 15:57:37 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	36.63	40.34	40.73	40.84	40.54	40.41	41.82	44.18	42.67	44.27	43.8	43.58	43.52	43.53	43.49	45.46	44.57	43.53	42.17	40.7	38.99	37.09	35.13	107.38
100	35.93	37.13	40.56	41.71	42.57	42.32	43.64	41.87	41.24	41.05	40.48	42.96	43.32	42.9	42.25	41.54	43.88	43.84	43.55	42.82	41.59	39.84	37.39	107.26
130	38.8	39.06	39.06	40.65	40.77	40.53	42.11	43.38	43.08	44.01	43.52	43.04	42.77	44.36	44	43.5	42.75	42.15	43.18	42.37	41.17	39.24	36.39	107.34
160	36.85	39.61	40.39	41.39	43.12	43.22	44.64	42.15	41.88	43.52	43.57	43.78	45.16	44.57	44.51	45.05	43.81	43.35	41.92	40.08	38.69	38.01	33.33	107.54
200	40.08	41.38	43.91	44.9	46.96	47.3	49.06	43.81	44.56	45.6	45.45	46.83	46.47	47.03	47.71	46.85	47.98	46.99	45.34	43.3	40.91	39.9	36.93	110.57
250	44.21	46.69	48.42	49.22	49.29	49.25	48.97	49.1	50.79	51.09	52.26	52.7	53.42	53.6	53.75	53.2	52.46	51.01	48.69	46.57	43.33	39.26	33.3	115.25
320	41.6	43.28	44.6	44.99	45.51	46.72	47.6	48.69	48.49	48.79	48.62	49.02	49.03	48.89	49.12	48.49	48.32	46.75	44.78	41.52	38.4	34.51	28.02	111.5
400	40.78	43.77	44.89	45.19	45.52	46.18	47.28	48.77	49.54	50.07	50.42	50.59	50.76	50.68	50.07	49.56	48.36	47.18	44.57	41.55	37.83	34.23	29.79	112.31
500	40.87	44.13	45.73	46.72	47.55	48.07	48.5	48.18	49.14	50.12	50.82	51.11	51.14	50.99	50.46	49.4	47.95	45.5	42.8	39.5	35.85	32.19	27.67	112.47
630	40.29	42.83	43.56	43.83	44.49	45.27	46.4	49.1	49.37	49.6	49.63	49.57	49.52	49.58	49.06	47.86	45.88	43.52	40.4	36.9	33.51	29.66	25.75	111.06
800	38.65	41.43	42.31	42.78	43.65	44.89	46.04	47.12	47.72	47.86	48.24	48.47	48.17	47.88	46.96	45.79	43.71	40.79	37.47	34	30.25	26.22	21.82	109.46
1000	37.34	39.65	40.47	41.04	41.93	42.97	43.9	46.85	47.5	47.79	47.48	47.2	46.88	45.58	44.8	43.49	41.13	38.1	34.88	31.46	27.57	23.46	18.69	108.09
1300	35.2	37.48	38.17	38.73	39.59	40.79	41.74	44.64	45.06	45	44.86	43.96	43.46	42.95	42.76	41.64	39.01	35.83	32.43	28.8	24.79	20.33	13.8	105.55
1600	33.23	35.42	36.46	37.35	38.36	39.47	40.91	42.44	42.66	42.52	42.29	42.87	42.48	41.75	41.04	39.92	37.56	34.14	30.51	26.59	22.36	16.88	0	103.82
2000	31.28	33.9	35	35.79	36.95	38.34	39.6	41.67	41.65	41.02	40.59	40.96	40.74	39.96	39.28	37.87	35.13	31.73	27.93	23.77	18.88	0	0	102.26
2500	29.28	31.86	32.93	33.88	35.26	36.84	38.5	40.32	40.16	39.42	39.04	39.48	39.47	38.69	37.93	36.38	33.55	29.9	25.87	21.38	3.49	0	0	100.76
3200	25.85	29.13	30.81	32.11	33.57	35.1	36.57	39.21	39.04	38.64	38.53	38.77	38.25	36.87	35.8	34.04	30.9	27	22.65	12.2	0	0	0	99.36
4000	19.97	25.07	27.24	28.49	29.66	31.61	33.41	37.14	37.03	36.65	36.59	36.62	35.96	34.18	32.73	30.88	27.7	23.52	12.59	0	0	0	0	96.64
5000	0	13.56	19.34	22.36	24.15	26.34	26.79	33.96	33.77	33.63	33.46	33.18	32.44	30.72	28.94	26.42	21.81	6.94	0	0	0	0	0	93.15
6300	0	0	0	0	0	11.05	19.15	29.66	29.53	29.08	28.48	28.45	27.84	25.56	22.06	15.38	0	0	0	0	0	0	0	87.92
8000	0	0	0	0	0	0	0	20.55	20.08	19.01	18.1	16.87	14.37	-2.08	0	0	0	0	0	0	0	0	0	77.18
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	51.06	53.45	54.8	55.51	56.22	56.75	57.67	58.26	58.77	59.19	59.46	59.72	59.84	59.75	59.53	58.86	58	56.5	54.6	52.38	49.91	47.34	44	121.88
PNL	56.79	59.55	61.12	61.97	62.71	63.63	64.93	65.63	65.77	65.86	66.05	66.28	66.19	65.73	65.13	64.1	62.55	60.23	57.25	53.81	49.53	44.38	38.13	65.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg	421
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	832.75
m01	0.20338
pamb	14.4499
tamb	497.366
rhumid	78.5
winds1	0
nprc	1.393
nprb	1.441
ptc	20.1267
ptb	20.8223
wactc	2.721
wactb	13.611
ttc	1196.84
ttb	510.815
ptmix	20.7067
ttmix	625.111
mixpnd	0.679348
grsvixp	13600.5
badchan	(26)
bkgnd	410
eacdate	04.Dec.96
eactime	17:18:48
DADSdate	97.08.18
DADStime	17:18:48
bichdate	04.Dec.96
bichtime	17:18:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 17:14:57 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (l	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	69.06	68.85	69.08	69.59	70.26	71	71.74	72.41	72.97	73.39	73.66	73.88
100	70.06	70.64	71.12	71.52	71.87	72.17	72.45	72.7	72.94	73.18	73.43	73.76
130	70.15	70.74	71.09	71.27	71.37	71.44	71.51	71.63	71.81	72.09	72.47	72.97
160	70.53	71.03	71.45	71.82	72.16	72.49	72.82	73.17	73.55	73.97	74.43	74.95
200	71.29	72.1	72.53	72.79	73.03	73.34	73.74	74.25	74.86	75.56	76.3	76.86
250	71.94	72.92	73.59	73.94	74.04	74.12	74.41	74.86	75.24	75.67	76.29	77.03
320	73.74	74.6	75.21	75.58	75.69	75.77	75.91	76.17	76.5	76.88	77.31	77.85
400	73.55	74.25	74.86	75.04	75.48	75.95	76.43	76.9	77.33	77.72	78.17	78.86
500	73.41	74.79	75.12	75.24	75.58	76.01	76.18	76.32	76.8	77.32	77.83	78.57
630	73.2	74.41	74.73	74.98	75.63	76.43	76.85	77.16	77.73	78.1	78.05	78.5
800	73.33	74.48	74.95	75.34	75.86	76.42	76.92	77.3	77.7	78.27	78.77	78.93
1000	72.52	73.43	73.93	74.37	74.9	75.5	76.06	76.59	77.13	77.71	78.28	78.59
1300	72.41	73.29	73.54	73.88	74.54	75.31	75.73	76.04	76.56	77.04	77.38	77.92
1600	72.07	73.01	73.39	73.69	74.11	74.53	74.95	75.46	75.94	76.37	76.94	77.46
2000	71.66	72.64	73.2	73.53	73.76	74.26	74.74	75.06	75.53	75.92	76.26	76.72
2500	70.84	72	72.56	72.98	73.47	73.98	74.39	74.52	74.53	74.63	74.98	75.49
3200	70.42	71.85	72.41	73.08	73.86	74.38	74.87	74.8	74.61	74.48	74.67	74.8
4000	70	71.58	72.62	73.12	73.45	74.33	74.87	74.63	74.38	74.32	74.4	74.35
5000	69.26	71.1	72.39	72.8	72.81	73.82	74.89	74.88	74.35	74.17	74.37	74
6300	69.12	71.24	72.39	72.87	72.74	73.79	75.09	75.16	74.59	74.24	74.16	73.95
8000	69.19	71.13	72.2	72.73	72.88	73.79	75.21	75.35	74.85	74.36	74.37	74.35
10000	67.87	69.01	70.07	70.98	71.93	72.93	73.3	73.82	72.94	71.85	72.01	71.15
OASPL	84.91	85.96	86.53	86.9	87.29	87.64	88.35	88.63	88.86	89.15	89.51	89.9

distance: (l	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.12	74.47	74.96	75.66	76.59	77.71	78.69	80.08	81.26	82.59	84.45	118.17
100	74.21	74.82	75.63	76.64	77.88	79.27	80.64	81.86	82.91	83.9	85.12	119.25
130	73.61	74.37	75.28	76.32	77.5	78.77	80.01	81.13	82.15	83.2	84.48	118.62
160	75.54	76.23	77.01	77.9	78.88	79.92	80.93	81.86	82.74	83.77	84.92	119.72
200	77.06	76.97	77.38	78.39	79.54	80.38	80.9	81.16	81.16	80.98	80.69	119.84
250	77.77	78.46	79.11	79.78	80.46	81.13	81.62	81.83	81.74	81.4	80.94	120.62
320	78.56	79.23	79.81	80.14	80.4	80.6	80.42	80.33	80.39	80.02	79.07	120.91
400	79.57	80.09	80.15	79.92	79.69	79.5	79.25	78.85	78.28	77.61	76.83	120.87
500	78.96	79.4	80.01	80.29	80.13	79.82	79.02	78.17	77.41	76.62	75.75	120.67
630	79.51	79.98	79.79	79.21	78.56	77.95	77.41	76.79	75.98	74.94	73.98	120.48
800	79.29	80.04	80.21	79.64	78.73	77.79	76.91	75.99	74.92	73.71	72.51	120.6
1000	78.94	79.53	79.59	78.75	77.48	76.41	75.25	74.09	73.04	72.13	71.5	119.83
1300	78.59	79.19	78.91	77.99	76.9	75.83	74.67	73.4	72.07	71.05	70.49	119.28
1600	78.07	78.85	78.7	77.48	75.87	74.44	73.37	72.28	71.01	69.94	69.31	118.73
2000	77.31	77.66	77.84	76.76	75.06	73.47	72.09	70.83	69.66	68.72	68.32	118.09
2500	75.93	76.59	76.51	75.33	73.61	72.09	70.92	69.7	68.37	67.39	67.08	117.07
3200	74.91	74.98	74.84	74.16	72.85	71.29	69.99	68.64	67.16	66.14	65.96	116.62
4000	73.94	73.56	73.24	72.76	71.68	70.12	68.86	67.54	65.95	64.94	64.89	116.12
5000	73.37	72.96	72.62	71.83	70.48	69.2	67.88	66.35	64.64	63.94	63.88	115.77
6300	73.42	72.86	72.34	71.32	69.8	68.38	67.1	65.65	64.16	63.27	63.09	115.74
8000	73.61	72.61	71.67	70.59	69.41	68.27	66.79	65.09	63.5	62.42	62.05	115.78
10000	70.55	70.09	69.54	68.74	67.6	66.24	64.79	62.88	60.72	59.21	58.76	113.77
OASPL	90.33	90.79	90.98	90.8	90.65	90.71	90.84	91.04	91.29	91.65	92.32	132.33

NASA Lewis Allison AST Jet Noise Test 1996

rdg 421
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_oust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 832.75
m01 0.20338
pamb 14.4499
tamb 497.368
rhumid 76.5
winds1 0
nprc 1.393
nprb 1.441
ptc 20.1287
ptb 20.8223
wacic 2.721
wacib 13.611
ttc 1196.84
ttb 510.815
ptmix 20.7067
ttmix 825.111
mixpnd 0.67935
grsvixp 13600.5
badchan {26}
bkgnd 410
escdate 04.Dec.96
esctime 17:18:48
DADSdate 97.08.18
DADStime 17:18:48
btchdate 04.Dec.96
btchtime 17:18:48
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 17:15:12 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	47.41	50.31	50.3	50.28	50.38	50.51	52.83	52.37	51.07	53.88	53.33	52.85	52.51	52.33	52.36	54.79	54.87	54.71	54.81	54.38	53.77	52.82	51.8	118.33
100	47.05	47.16	49.88	50.23	50.5	49.89	51.64	52.63	51.92	51.2	50.83	52.84	52.91	52.67	52.38	52.2	54.76	55.22	55.5	55.43	54.9	53.9	52.27	118.5
130	49.43	49.67	49.78	51.35	51.51	51.31	52.8	51.51	51.47	53.25	52.98	52.75	52.75	54.44	54.31	54.22	54.13	54.28	56	55.78	55.28	54.36	53.01	119.04
160	48.74	50.56	50.94	51.18	52.7	52.78	53.67	52.99	52.83	54.24	54.34	54.39	55.47	55.17	55.11	56.29	56.37	56.12	55.28	54.26	53.85	51.74	48.81	119.25
200	49.51	50.21	51.83	52.03	53.2	53.19	54.18	53.98	54	55.02	55.36	56.06	55.81	55.51	56.12	55.94	56.97	56.8	56.28	55.24	54.03	51.65	48.44	119.85
250	51.05	52.48	54.05	54.96	55.04	55.34	55.62	54.44	55.63	55.84	56.89	57.04	57.82	57.77	58.08	57.66	57.39	56.81	55.84	54.63	52.45	49.75	46	120.65
320	50.99	51.67	52.31	53.06	54.04	54.86	55.2	55.55	56.73	56.01	55.54	56.08	56.73	56.85	56.97	56.35	55.84	54.55	53.43	51.55	49.55	47.07	43.02	119.39
400	49.81	51.72	52.89	53.56	54.1	54.58	54.88	55.98	56.35	56.67	57.11	57.39	57.48	57.53	57.37	56.94	55.66	54.59	52.52	50.49	47.85	44.72	40.54	119.66
500	49.51	51.53	52.13	52.59	53.69	54.66	55.15	55.06	55.58	56.11	56.5	57.03	57.2	56.98	56.55	55.82	54.53	52.74	50.61	48.31	45.45	41.82	37.14	118.87
630	49.03	50.86	51.47	52.35	53.25	54.04	54.84	55.52	55.92	56.41	56.25	56.21	56.7	57.04	56.32	54.95	53.21	51.24	49.23	46.62	43.64	39.53	34.16	118.41
800	48.08	49.78	50.74	51.43	52.18	53.02	53.56	55.22	55.55	55.65	55.95	55.91	55.78	55.94	55.48	53.96	51.94	49.85	47.3	44.33	40.78	36.45	31.2	117.55
1000	46.86	48.48	49.33	49.96	50.9	51.92	52.62	54.04	54.44	54.79	55.08	54.99	55.13	55.34	54.5	52.68	50.46	48.08	45.39	42.27	38.44	34.08	28.48	116.49
1300	45.79	47.48	48.47	49.3	50.1	50.85	51.35	52.99	53.47	53.81	53.87	54.08	54.13	54.08	53.21	51.3	48.81	46.15	43.37	40.19	36.27	31.53	25.28	115.34
1600	44.85	46.55	47.65	48.56	49.17	49.78	50.43	51.86	52.24	52.8	52.88	52.99	53.09	53.06	52.09	50.09	47.29	44.29	41.21	37.88	33.56	28.49	21.87	114.22
2000	42.94	44.76	46.02	46.86	47.74	48.58	49.08	50.76	51.15	51.28	51.27	51.21	51.26	51.19	50.27	48.08	45.02	41.92	38.74	34.96	30.38	24.96	15.84	112.58
2500	40.41	42.57	43.91	45.11	46.32	47.2	47.93	49.24	49.18	48.89	48.94	49.1	48.75	48.49	47.59	45.5	42.67	39.33	36.01	32.02	26.89	20.43	0	110.45
3200	37.26	39.78	41.58	42.91	43.96	45.14	45.84	48.05	47.88	47.54	47.32	46.88	46.27	45.42	44.12	42.21	39.54	36.11	32.34	27.9	21.82	0	0	108.26
4000	32.39	35.48	37.7	38.94	39.68	41.12	42.34	45.67	45.34	45.1	44.92	44.36	43.07	41.52	40.12	38.08	35.07	31.54	27.45	21.69	0	0	0	105.13
5000	24.74	28.53	31.36	32.8	33.63	35.24	36.96	42.47	41.87	41.48	41.22	40.14	38.79	37.26	35.48	32.88	29.34	25	17.25	0	0	0	0	100.9
6300	0	15.26	20.94	23.22	24.7	26.8	28.92	37.27	36.74	36.21	35.63	34.8	33.27	31.21	28.76	25.16	19.42	0	0	0	0	0	0	95.03
8000	0	0	0	0	0	0	0	29.26	28.76	27.88	27.08	25.67	23.12	18.96	5.03	0	0	0	0	0	0	0	0	85.88
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.39	61.85	62.83	63.5	64.23	64.73	65.46	65.94	66.18	66.68	66.86	67.07	67.3	67.34	67.1	66.58	66.08	65.34	64.66	63.67	62.54	60.84	58.7	130.19
PNL	67.67	69.49	70.75	71.61	72.46	73.23	73.93	74.29	74.36	74.57	74.61	74.62	74.58	74.38	73.84	72.41	70.93	69.24	67.27	65.17	62.4	58.95	54.6	74.74

NASA Lewis Allison AST Jet Noise Test 1996

rdg 422
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 942.03
m01 0.20318
pamb 14.4507
tamb 496.939
rhumid 75.88
winds1 0
nprc 1.539
nprb 1.61
ptc 22.2396
ptb 23.2656
wactc 2.952
wactb 15.979
ttc 1336.87
ttb 510.841
ptmix 23.1056
ttmix 639.647
mixpnd 0.759714
grsvtrp 17833.6
badchan (26)
bkgnd 410
escdate 04 Dec 96
esctime 17:23:13
DADSdate 97.08.18
DADStime 17:23:13
btchdate 04 Dec 96
btchtime 17:23:13
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 17:17:59 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.2	73.5	73.79	74.09	74.41	74.77	75.17	75.62	76.13	76.69	77.3	77.88	78.38	78.8	79.35	80.25	81.67	83.54	85.51	87.32	88.83	90.08	91.59	124
100	75.38	75.56	75.8	76.08	76.39	76.72	77.07	77.42	77.77	78.12	78.49	78.93	79.52	80.31	81.32	82.58	84.11	85.82	87.52	89.08	90.4	91.88	93.12	125.76
130	74.81	75.33	75.75	75.98	76.07	76.13	76.19	76.3	76.48	76.72	77.08	77.8	78.32	79.25	80.4	81.77	83.38	85.08	86.7	88.1	89.23	90.2	91.25	124.69
160	76.08	76.46	76.75	76.98	77.19	77.41	77.67	77.98	78.34	78.77	79.29	79.9	80.82	81.48	82.47	83.63	84.94	86.33	87.8	88.58	89.23	89.62	89.91	125.54
200	76.27	77.07	77.86	78.37	78.46	78.46	78.63	78.99	79.5	80.1	80.77	81.48	82.19	82.95	83.71	84.49	85.29	86.07	86.76	87.3	87.73	88.16	88.56	125.57
250	77.1	77.34	77.46	77.7	78.1	78.62	79.18	79.71	80.14	80.46	80.87	81.77	83.07	84.46	85.33	85.84	86.48	87.36	88.18	88.72	88.89	88.66	88.06	126.52
320	78.39	78.89	79.25	79.35	79.44	79.59	79.84	80.2	80.64	81.11	81.61	82.12	82.63	83.26	84.48	85.26	85.5	86.04	86.58	86.86	86.65	85.86	84.7	125.75
400	77.88	78.31	78.85	79.32	79.72	80.14	80.69	81.19	81.56	82.28	83.22	83.13	83.64	84.44	84.93	85.13	85.33	85.62	85.85	85.84	85.46	84.65	83.38	125.9
500	78.39	79.25	79.58	79.76	79.96	80.21	80.52	80.87	81.27	81.73	82.14	82.55	83.39	84.05	84.4	84.62	84.89	85.17	85.16	84.74	83.91	82.74	81.55	125.42
630	78.29	79.2	79.6	79.84	79.99	80.17	80.47	81.14	81.9	82.33	82.92	83.42	83.95	84.58	84.75	84.65	84.49	84.07	83.53	82.85	81.99	81.01	80.09	125.38
800	78.57	79.28	79.51	79.79	80.31	80.86	81.21	81.65	82.33	82.94	83.55	83.98	84.13	84.45	84.54	84.25	83.83	83.36	82.79	82.05	81.18	80.2	79.34	125.39
1000	78.12	78.86	79.03	79.13	79.41	79.89	80.54	81.3	82.03	82.7	83.52	84.48	84.47	84.65	84.59	83.99	83.23	82.5	81.59	80.66	79.76	78.88	78.21	125.1
1300	77.8	78.48	78.59	78.71	79.12	79.67	80.52	81.42	82.08	82.52	83.02	83.98	84.75	84.97	84.38	83.27	82.18	81.38	80.58	79.67	78.65	77.72	77.15	124.8
1600	77.45	78.2	78.44	78.62	78.98	79.53	80.23	80.94	81.65	82.44	83.33	84.41	85.4	85.6	84.48	82.56	80.82	79.73	78.91	78.15	77.39	76.64	76.14	124.71
2000	77.35	78.17	78.36	78.65	79.03	79.48	80.07	80.89	81.83	82.56	83.44	84.59	85.44	85.75	84.19	81.93	80.07	78.72	77.79	76.93	75.93	75.11	74.66	124.61
2500	75.99	77.18	77.81	78.2	78.5	78.88	79.58	80.24	80.77	81.62	82.78	83.93	84.93	85.15	83.66	81.25	79.17	77.9	76.77	75.62	74.65	74	73.82	123.93
3200	75.68	76.54	77.16	77.74	78.14	78.34	78.93	79.43	79.7	80.13	80.97	81.88	82.54	82.68	81.84	80.17	78.3	76.74	75.54	74.47	73.47	72.71	72.43	122.43
4000	74.88	76.21	76.93	77.35	77.57	78.01	78.58	78.72	78.98	79.31	79.79	80.08	80.46	80.07	79.22	78.16	76.97	75.72	74.55	73.25	71.92	71.15	71.23	121.13
5000	73.64	75.28	76.31	76.65	76.19	76.96	77.81	78.04	78.14	78.38	78.8	79.01	79.1	78.41	77.62	76.69	75.53	74.32	73.15	71.84	70.58	69.94	70.05	120.02
6300	72.9	74.64	75.45	75.9	75.38	76.08	77.31	77.81	78.19	78.8	78.62	78.32	78.33	77.65	76.75	75.63	74.32	73.11	71.91	70.7	69.64	68.99	68.96	119.46
8000	72.07	74.04	75	75.52	74.86	75.52	76.91	77.35	77.83	78.55	78.82	78.56	78.18	77.12	75.82	74.59	73.47	72.39	71.22	69.97	68.87	68.3	68.19	119.12
10000	70.5	71.62	72.3	73.65	73.03	73.57	74.24	74.6	75.4	76.27	76.63	75.58	75.29	74.71	73.82	72.74	71.32	69.72	68.3	68.67	65.48	64.69	64.77	118.71
OASPL	89.85	90.65	91.05	91.36	91.56	91.95	92.49	93.01	93.55	94.1	94.75	95.39	95.99	96.4	96.31	96.1	96.17	96.61	97.2	97.76	98.2	98.59	99.18	137.78

NASA Lewis Allison AST Jet Noise Test 1996

rdg	422
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	942.03
m01	0.20318
pamb	14.4507
tamb	496.939
rhumid	75.88
winds1	0
nprc	1.539
nprb	1.61
ptc	22.2396
ptb	23.2656
wactc	2.952
wactb	15.979
ttc	1336.87
ttb	510.841
ptmix	23.1056
ttmix	639.647
mixpnd	0.759714
grswtp	17833.6
badchan	(26)
bkgnd	410
escdate	04.Dec.96
esctime	17:23:13
DADSdate	97.08.18
DADStime	17:23:13
btchdate	04.Dec.96
btchtime	17:23:13

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 17:18:14 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	50.44	53.97	54	54.04	54.25	54.47	57.39	55.58	54.22	58.03	57.84	57.69
100	52.46	52.07	54.7	55.09	55.47	54.96	56.39	57.35	56.86	58.35	58.07	58.12
130	53.98	54.46	54.57	56.26	56.29	56	57.61	56.18	56.05	57.43	57.17	57.03
160	53.95	55.85	56.6	57.07	58.19	57.89	58.56	57.79	57.71	59.35	59.53	59.67
200	54.32	54.68	56.08	56.33	57.46	57.72	58.95	58.71	58.66	59.59	59.83	60.64
250	56.12	57.12	58.1	58.76	58.83	59.24	58.54	59.28	60.25	60.19	61.22	61.49
320	55.37	55.94	56.57	57.28	58.2	58.98	59.4	59.59	59.7	60.06	59.74	60.41
400	56.03	56.59	57.44	56	58.43	58.76	59.26	60.28	60.72	61.35	62.2	61.76
500	54.17	55.73	56.79	57.48	58.01	58.3	58.69	59.81	59.92	60.36	60.59	60.66
630	53.95	55.23	55.89	56.76	57.63	58.46	59.08	59.49	60.1	60.58	61.18	61.48
800	53.78	55.19	55.83	56.25	56.79	57.41	58.02	58.56	60.25	60.46	60.75	61.1
1000	52.26	53.6	54.34	54.86	55.56	56.28	57.35	58.75	59.39	59.94	60.44	60.93
1300	51.46	52.91	53.53	54.13	54.86	55.75	56.56	58.38	59.01	59.27	59.5	60.34
1600	50.23	51.68	52.08	53.35	54.18	54.95	55.78	57.34	57.94	58.77	59.47	60.02
2000	48.6	50.28	51.45	52.4	53.02	53.53	54.3	56.59	57.48	57.99	58.68	59.49
2500	45.46	47.53	48.87	49.93	50.8	51.42	52.16	54.98	55.41	55.93	56.63	57.25
3200	42.52	44.43	46.05	47.38	48.02	48.78	49.6	52.7	52.83	52.98	53.38	53.64
4000	37.03	39.92	41.9	42.99	43.31	44.44	45.41	49.78	49.95	49.98	50.07	49.68
5000	29.16	32.47	34.81	36.25	36.89	37.87	39.32	45.67	45.66	45.7	45.57	45.01
6300	13.94	21.14	24.66	27.01	27.2	28.95	30.87	40.05	40.35	40.5	40.07	39.09
8000	0	0	0	0	0	0	3.26	31.49	31.91	32.18	31.79	30.34
10000	0	0	0	0	0	0	0	8.28	9.25	9.4	7.72	0
OASPL	65.34	66.58	67.45	68.09	68.7	69.06	69.91	70.52	70.88	71.5	71.88	72.25
PNL	73.06	74.68	75.77	76.61	77.26	77.8	78.64	79.35	79.76	80.28	80.75	81.23

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	57.61	57.67	57.93	60.87	61.1	61.51	61.77	61.85	61.56	60.89	59.94	124.74
100	58.07	57.74	57.39	57.17	60.02	60.79	61.42	61.72	61.54	60.85	59.49	124.39
130	57.3	59.33	59.65	60.09	60.62	61.37	63.22	63.15	62.46	60.86	58.55	125.21
160	60.83	60.79	60.92	62.28	62.09	61.86	61.2	60.44	60.19	58.63	58.3	125.04
200	60.61	60.74	62.04	61.72	62.69	62.64	62.38	61.89	60.95	58.79	55.62	125.5
250	62.53	62.89	63.65	63.49	63.15	62.59	61.83	61.13	59.05	56.04	51.73	125.91
320	60.92	61.03	61.61	61.37	61.19	60.58	60.22	58.63	56.49	53.73	49.44	124.33
400	61.88	62.16	61.83	61.42	60.66	60.2	58.8	57.25	54.62	51.12	46.58	124.51
500	61.12	61.48	61.4	60.6	59.97	58.77	57.02	54.68	51.74	48.09	43.46	123.51
630	61.33	61.26	60.55	59.6	58.43	56.86	55.09	52.64	49.77	45.96	40.99	123.06
800	60.87	60.93	60.42	59.3	57.64	55.7	53.45	50.85	47.56	43.35	38.09	122.57
1000	60.8	60.47	59.46	57.63	55.72	53.81	51.48	48.65	45.11	40.75	34.99	121.7
1300	61	60.29	58.77	56.46	53.88	51.57	49.08	46.13	42.57	38.03	31.86	121.03
1600	60.41	60.27	58.25	55.29	52.31	49.48	46.81	43.81	40.05	35.28	28.66	120.38
2000	59.85	59.71	57.07	53.42	50.23	47.52	44.57	41.02	36.78	31.51	24.35	119.48
2500	57.49	58.73	54.78	51.63	48.19	45.01	41.68	37.9	33.31	27.42	17.67	117.2
3200	53.56	52.56	50.67	48.05	45.01	41.84	37.95	33.6	28.17	20.76	0	113.89
4000	49.23	47.72	45.6	43.15	40.3	37.01	33.1	28.02	20.19	0	0	109.99
5000	44.17	42.49	40.35	37.56	34.06	30.04	25.03	15.44	0	0	0	105.06
6300	38.06	35.93	33.07	28.88	25.26	18.88	0	0	0	0	0	98.98
8000	28.41	25.19	20.28	8.51	0	0	0	0	0	0	0	89.84
10000	0	0	0	0	0	0	0	0	0	0	0	68.02
OASPL	72.55	72.6	72.33	71.96	71.69	71.32	71.05	70.4	69.45	67.83	65.7	135.67
PNL	81.45	81.21	79.7	77.87	76.41	75.23	73.73	72.14	69.88	66.82	62.61	80.72

NASA Lewis Allison AST Jet Noise Test 1996

rdg 419
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbid NATR full wedge
rigbid JER w/ external supplement
mixbid CONV
nozbid BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 998.5
m01 0.20257
pamb 14.4484
tamb 498.442
rhumid 74.97
winds1 0
nprc 1.745
nprb 1.816
ptc 25.2125
ptb 26.2383
wactc 3.379
wactb 18.198
ttc 1427.52
ttb 511.473
ptmix 26.0776
ttmix 654.941
mixpnd 0.795798
grsvixp 21542.6
badchan (26)
bkgnd 410
escdate 04.Dec.96
esctime 16:57:51
DADSdate 97.08.18
DADStime 16:57:51
btchdate 04.Dec.96
btchtime 16:57:51
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 15:39:09 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	78.78	77.57	78.15	78.81	78.99	79.32	79.62	79.93	80.26	80.62	81.05
100	80.42	80.7	80.38	80.22	80.46	80.93	81.53	82.15	82.74	83.22	83.56
130	79.97	80.34	80.53	80.62	80.68	80.75	80.88	81.04	81.32	81.71	82.23
160	81.35	81.61	81.81	81.98	82.16	82.38	82.64	82.96	83.34	83.8	84.34
200	81.04	81.78	82.34	82.79	83.16	83.51	83.83	84.16	84.49	84.83	85.22
250	80.88	80.9	81.24	81.66	82.18	82.71	83.32	83.97	84.65	85.35	86.08
320	82.11	82.43	82.69	82.9	83.12	83.36	83.66	84.01	84.45	84.97	85.58
400	82.05	82.86	83.1	83.43	83.74	84.08	84.49	85	85.63	86.42	87.28
500	82.84	83.09	83.4	83.61	83.81	84.03	84.29	84.63	85.05	85.57	86.21
630	82.49	83.17	83.54	83.77	83.97	84.2	84.5	84.89	85.39	86.01	86.68
800	83.16	83.5	83.51	83.63	84.04	84.5	84.77	85.22	85.96	86.68	87.4
1000	83.51	84.03	84.03	84.1	84.35	84.68	85.2	85.74	86.34	87.03	87.89
1300	84.01	84.51	84.65	84.75	85.02	85.48	86.02	86.53	87.12	87.93	88.96
1600	85.01	85.71	85.67	85.62	85.88	86.37	86.85	87.24	87.87	88.99	90.51
2000	86.15	86.68	86.4	86.07	86.09	86.48	87.06	87.96	89.16	90.55	92.27
2500	87.06	87.4	87.23	86.89	86.56	86.44	86.67	87.31	88.46	90.24	92.33
3200	87.64	88.08	87.83	87.4	86.92	86.49	86.36	86.77	87.75	89.04	90.86
4000	87.83	88.85	88.9	88.68	87.81	87.63	87.47	87.15	87.31	88.19	89.57
5000	86.74	88.24	88.74	88.4	87.46	87.58	87.94	87.74	87.43	87.8	88.88
6300	85.76	87.08	87.71	87.51	86.82	87.12	87.66	87.91	87.73	87.98	88.35
8000	84.49	86.17	86.8	86.67	86.03	86.54	87.35	87.56	87.55	88.14	88.84
10000	82.26	82.99	83.48	83.87	84.32	84.89	84.93	84.96	85.09	85.62	86.28
OASPL	97.58	98.31	98.51	98.43	98.25	98.46	98.82	99.14	99.63	100.47	101.61

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.59	82.3	83.22	84.36	85.76	87.42	89.28	91.14	92.95	94.87	96.45	98.68	129.62
100	83.89	84.35	85.03	86.03	87.39	89.18	91.24	93.35	95.28	96.97	98.48	100.07	131.66
130	82.94	83.85	84.99	86.38	88.03	89.92	91.96	93.89	95.55	96.86	97.92	98.94	131.56
160	85	85.79	86.74	87.86	89.14	90.8	92.19	93.74	95.15	96.36	97.5	98.65	131.81
200	85.69	86.3	87.07	87.99	89.08	90.38	91.74	93.05	94.13	94.94	95.8	96.11	131.23
250	86.86	87.74	88.72	89.83	91.08	92.48	93.91	95.11	95.88	96.14	95.93	95.28	132.45
320	86.3	87.12	88.04	89.05	90.14	91.31	92.49	93.43	93.98	94.06	93.71	92.95	131.26
400	87.97	88.48	89.35	89.88	90.19	90.95	92.1	92.66	92.5	91.96	91.38	90.54	131.16
500	86.96	87.8	88.75	89.62	90.28	90.82	91.21	91.39	91.3	90.96	90.45	89.36	130.55
630	87.35	88.25	89.1	89.65	89.91	90.02	90.15	90.24	89.92	89.06	87.92	86.81	130.18
800	88.18	88.84	89.41	89.51	89.25	88.95	88.86	88.71	88.03	87.06	86.45	86	129.96
1000	88.85	89.56	89.85	89.16	88.35	88.16	88.27	87.92	87.07	85.99	84.93	84.01	129.98
1300	90.03	90.99	91.7	90.21	88.08	87.11	86.93	86.34	85.3	84.24	83.45	83.02	130.6
1600	91.93	92.98	93.36	90.88	87.72	85.99	85.31	85.09	84.5	83.42	82.56	82.22	131.61
2000	94.01	94.89	95.25	92.44	88.42	85.72	84.35	83.55	82.89	82.23	81.63	81.36	132.95
2500	93.87	94.78	95.04	92.47	88.69	85.82	84.02	82.84	81.88	80.93	80.07	79.68	132.87
3200	92.17	92.97	92.44	90.29	87.47	84.97	83.17	81.96	80.93	79.85	78.95	78.62	131.57
4000	91.05	91.94	90.85	88.72	86.19	83.88	82.24	81.01	79.8	78.62	77.86	77.8	131.11
5000	90.09	90.58	89.72	87.66	84.97	82.6	81.09	79.96	78.9	77.92	77.24	77.16	130.54
6300	89.6	90.22	89.52	87.39	84.55	82.04	80.35	79.29	78.44	77.56	76.82	76.57	130.15
8000	89.57	89.84	89.17	86.96	84.14	81.85	80.42	79.52	78.6	77.59	76.89	76.37	129.8
10000	86.38	86.8	86.55	84.99	82.73	80.35	78.49	77.78	76.88	75.27	74.12	73.61	127.28
OASPL	102.79	103.56	103.78	102.6	101.71	101.89	102.72	103.65	104.45	105.13	105.8	106.84	144.49

NASA Lewis Allison AST Jet Noise Test 1996

rdg	419
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	998.5
m01	0.20257
pamb	14.4484
tamb	496.442
rhumid	74.97
winds1	0
nprc	1.745
nprb	1.816
ptc	25.2125
ptb	26.2383
wactc	3.379
wactb	18.196
ttc	1427.52
ttb	511.473
ptmix	26.0776
ttmix	654.941
mixpnd	0.795798
gravixp	21542.6
badchan	(26)
bkgnd	410
escdate	04.Dec.96
esctime	16:57:51
DADSdate	97.08.18
DADStime	16:57:51
btchdate	04.Dec.96
btchtime	16:57:51

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 15:39:15 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	55.6	59.24	59.26	59.25	59.43	59.7	61.93	59.89	58.38	61.75	61.42	61.27
100	57.78	57.59	59.65	59.76	59.94	59.29	61	62.08	61.76	61.45	61.26	63.04
130	59.12	59.37	59.4	61.2	61.23	61	62.56	60.93	60.98	62.54	62.49	62.59
160	59	60.68	61.13	61.5	63.01	63.08	63.77	62.78	62.68	64.12	64.3	64.52
200	58.69	59.2	60.57	60.76	61.68	61.96	63.11	63.88	63.54	63.99	63.99	64.93
250	59.37	60.04	61.3	62.22	62.46	63.03	63.37	63.54	64.82	65.11	66.07	66.28
320	59.44	59.85	60.43	61.27	62.26	63	63.32	63.4	63.68	64.21	64.12	65.38
400	59.09	60.58	61.48	61.98	62.31	62.59	63.06	64.09	64.78	65.43	66.05	66.22
500	58.83	59.79	60.49	61.17	61.89	62.31	62.69	63.37	63.7	64.15	64.67	65.2
630	58.23	59.45	60.29	60.82	61.48	62.18	62.65	63.24	63.68	64.33	64.85	65.11
800	58.44	59.66	60.27	60.86	61.42	62.06	62.62	63.11	63.92	64.34	64.74	65.41
1000	58.11	59.22	59.85	60.32	60.99	61.74	62.75	63.19	63.86	64.24	65.02	65.91
1300	58.32	59.77	60.39	60.96	61.69	62.45	63.09	63.47	64.13	65.08	66.07	66.79
1600	58.38	59.82	60.53	60.92	61.38	61.96	62.76	63.63	64.31	65.45	66.88	68.09
2000	58.04	59.53	60.12	60.4	60.68	60.98	61.37	63.66	64.84	66.15	67.78	69.07
2500	57.12	58.5	59.01	59.27	59.33	59.31	59.49	62.05	63.08	64.52	66.19	67.49
3200	54.68	56.59	57.63	58.05	58.03	58.17	58.26	60.04	60.92	61.9	62.98	64.02
4000	50.33	52.67	54.14	54.68	54.43	54.86	55.48	58.15	58.28	58.96	59.95	60.78
5000	42.06	45.24	47.18	48.03	48.12	48.92	49.93	55.33	54.95	55.08	55.64	56.23
6300	31.04	34.84	37.28	38.37	38.73	39.94	41.31	50.13	49.96	49.94	49.82	50.23
8000	0	15.46	20.51	22.81	24.19	26.03	26.99	41.66	41.51	41.75	41.76	41.44
10000	0	0	0	0	0	0	0	27.01	26.84	26.68	26.08	24.24
OASPL	70.64	71.82	72.58	73.12	73.67	74.05	74.79	75.34	75.81	76.65	77.4	78.2
PNL	81.11	82.54	83.31	83.76	84.14	84.52	85.1	85.73	86.4	87.44	88.56	89.58

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.32	61.6	62.12	65.29	65.79	66.58	67.25	67.76	67.85	67.47	66.89	130.26
100	63.16	63.05	62.99	63.24	66.49	67.59	68.51	69	68.91	68.2	66.69	131.04
130	63.04	65.1	65.59	66.2	66.93	67.9	69.64	69.85	69.54	68.46	66.83	131.78
160	65.67	65.66	65.95	66.41	67.59	68.02	68.14	68	67.89	66.59	64.41	131.16
200	64.99	65.34	66.76	67.25	67.73	69.25	69.33	68.81	67.41	65.92	62.59	131.33
250	67.07	67.36	67.99	68.24	69.06	68.95	68.54	68.01	66.33	63.6	59.89	131.4
320	65.39	65.89	66.53	66.41	66.98	67.24	67.33	65.82	63.7	61.11	57.16	129.8
400	66.59	67.21	67.3	67.21	66.69	66.43	65.24	63.93	61.68	58.68	54.1	129.67
500	65.7	66	66.12	65.88	65.42	64.41	63.37	61.5	58.72	54.98	50	128.29
630	65.35	65.65	65.49	64.99	64.03	62.94	61.44	59.19	56.33	52.61	47.81	127.58
800	65.86	65.86	64.92	63.88	62.55	61.52	59.68	56.98	53.55	49.38	44.02	127.16
1000	66.46	66.2	64.68	62.45	60.73	59.36	57.16	54.2	50.68	46.46	40.81	126.83
1300	67.29	67.36	64.83	61.34	58.99	57.16	55.24	52.39	48.48	44.03	38.2	127.24
1600	68.94	68.94	65.64	61.12	57.58	55.05	52.71	49.9	46.3	41.58	35.04	127.89
2000	69.4	69.28	65.54	60.46	56.57	53.65	50.7	47.31	43.19	37.76	30.4	128.14
2500	67.71	66.82	63.62	59.06	54.86	51.23	47.86	44.14	39.52	33.51	25.29	126.39
3200	64.11	62.45	58.33	55.56	51.71	48.1	44.38	40.03	34.64	27.95	15.76	123.33
4000	60.68	58.82	55.52	51.55	47.43	43.52	39.57	34.79	28.72	19.25	0	120.09
5000	55.84	53.92	50.48	46.05	41.51	37.12	32.4	26.77	16.5	0	0	115.45
6300	49.86	47.79	43.91	38.88	33.66	28.57	22.18	0	0	0	0	109.41
8000	40.25	37.78	33.38	27.5	20.31	0	0	0	0	0	0	100.38
10000	22.25	18.1	2.15	0	0	0	0	0	0	0	0	84.35
OASPL	78.62	78.66	77.76	77.15	77.31	77.56	77.66	77.28	76.48	75.14	73.16	141.65
PNL	89.82	89.42	87.03	84.17	82.49	81.68	80.72	79.34	77.21	74.64	70.73	88.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	424
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	585.25
m01	0.29922
pamb	14.3947
tamb	496.338
rhumid	79.14
winds1	0
nprc	1.175
nprb	1.213
ptc	16.9138
ptb	17.4608
wacic	1.86
wacib	9.271
ttc	1125.83
ttb	508.505
ptmix	17.3694
ttmix	611.661
mixpnd	0.482661
grsvixp	6514.42
badchan	(26)
bkgnd	411
escdate	04.Dec.96
esctime	17:45:15
DADSdate	04.Dec.96
DADStime	17:45:15
btchdate	04.Dec.96
btchtime	17:45:15

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:03:16 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	0	58.73	59.62	60.45	61.16	61.69	62.06	62.29	62.44	62.52	62.58	62.59	62.68	62.91	63.21	63.22	62.64	61.45	0	0	0	104.06
250	64.48	66.07	68.52	68.48	68.85	69.26	69.83	70.41	70.76	70.89	71.06	71.38	71.89	72.65	73.09	73.26	73.6	73.58	73.19	72.58	71.77	70.71	66.65	114.06
320	63.99	66.18	69.13	68.25	67.86	67.78	69.11	69.73	70.09	69.89	69.77	70.34	71.39	72.13	72.54	72.59	72.13	72.01	71.88	70.84	67.66	66.42	63.4	113.13
400	59.3	66.22	68.25	67.65	66.95	68.25	68.91	68.96	69.37	69.74	70.36	70.99	71.07	71.03	71.33	71.6	71.19	70.48	69.54	68.1	64.6	64.01	63.1	112.36
500	62.68	66.05	67.38	67.56	67.59	68.27	69.28	70	70.4	70.66	70.99	71.34	71.92	72.45	72.7	72.84	73.16	72.77	71.57	70.16	68.14	66.72	64.04	113.4
630	64.7	68.01	66.79	68.65	68.53	68.81	69.94	70.39	71.03	71.79	71.65	71.04	71.55	72.12	72.33	72.42	72.21	71.53	70.25	68.36	66.67	65.95	65.33	113.42
800	62.84	65.69	65.99	66.13	66.42	67.24	68.22	69.09	69.69	69.6	69.53	70.62	70.05	70.37	70.94	70.84	70.11	68.64	66.77	65.06	63.93	63.68	64.42	111.6
1000	62.42	64.97	65.51	65.98	66.62	67.05	68.45	69.16	69.66	70.17	70.27	69.99	70.03	69.79	69.18	68.67	68.31	67.16	65.38	63.66	62.54	62.27	63.06	111.15
1300	59.5	63.36	64.07	64.31	64.79	65.33	66.5	67.12	67.27	67.35	67.25	66.58	66.91	67.09	67.17	67.09	66.43	65.16	63.57	62.04	61.03	60.78	61.52	108.82
1600	57.11	61.17	61.75	62.24	63.12	63.93	65.09	65.83	66.11	66.34	66.58	66.72	66.84	66.51	66.41	66.45	65.75	64.58	63.4	61.96	60.89	60.48	60.83	107.92
2000	54.5	60.78	61.31	62.33	62.82	63.53	64.4	64.94	65.13	65.24	65.29	65.03	65.2	65.23	65.22	65.03	63.98	62.61	61.38	60.34	59	58.43	57.82	106.77
2500	55.55	60.14	61.04	61.79	62.39	62.68	63.18	63.71	63.61	63.86	64.05	64.13	64.48	64.69	64.69	64.23	63.04	61.7	60.44	59.24	58.2	57.76	57.28	105.86
3200	56.73	60.18	61.56	62.48	62.99	63.36	64.13	64.28	64.09	64.07	64.34	64.25	64.51	64.48	64.35	64.07	62.95	61.57	60.34	59.16	57.75	57.38	57.88	106.1
4000	56.54	60.41	62.17	63.25	63.15	63.72	64.64	64.8	64.62	64.56	64.92	64.81	64.37	63.89	63.73	63.45	62.51	61.37	60.21	58.9	57.52	56.82	57.26	106.29
5000	56.04	61.06	63.05	63.78	63.34	64.04	65.24	65.45	65.13	65.15	65.55	65.3	65.05	64.69	64.29	63.68	62.63	61.55	60.49	59.31	58.02	56.66	56.72	106.82
6300	59.46	62.2	64.2	64.84	64.16	64.83	66.33	66.63	66.32	66.19	66.22	66.13	66.2	65.9	65.43	64.72	63.5	62.21	61.04	59.94	58.81	57.77	57.42	107.82
8000	60.7	63.55	65.16	66.05	65.28	65.86	67.4	67.57	67.34	67.18	67.34	67.3	67.3	66.81	66.13	65.35	64.23	63.19	62.3	61.37	60.16	58.89	58.5	108.65
10000	61.97	62.99	64.09	65.07	65.27	65.67	66.02	66.12	65.93	65.67	65.84	65.24	65.43	65.39	65.16	64.78	63.83	62.55	61.3	60.29	59.01	57.48	56.91	111.14
OASPL	82.5	76.73	77.98	78.17	78.19	78.72	79.73	80.21	80.49	80.67	80.8	80.92	81.19	81.45	81.6	81.56	81.28	80.67	79.76	78.56	76.77	75.84	74.27	123

NASA Lewis Allison AST Jet Noise Test 1996

rdg	424
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natvbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	585.25
m01	0.29922
pamb	14.3947
tamb	496.338
rhumid	79.14
winds1	0
nprc	1.175
nprb	1.213
ptc	16.9138
ptb	17.4608
wactc	1.86
wactb	9.271
ttc	1125.83
ttb	508.505
ptmix	17.3694
ttmix	611.661
mixpnd	0.482861
gravxp	6514.42
badchan	(26)
bkgnd	411
escdate	04.Dec.96
esctime	17:45:15
DADSdate	04.Dec.96
DADStime	17:45:15
bchdate	04.Dec.96
bchtime	17:45:15

**Scenario Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:03:21 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	35.99	41.69	43.8	45.1	47.38	49.63	41.37	43.44	43.65	45.55	45.55
200	44.6	46.81	48.98	49.36	49.21	48.83	48.86	49.97	51.2	51.81	51.96	52.03
250	39.67	44.4	45.86	45.17	45.21	46.93	47.99	49.13	49	48.27	48.04	48.24
320	38.25	44.37	46.37	46.27	45.9	46.7	47.87	48.05	48.78	48.98	48.97	49.77
400	38.38	43.36	45.48	46.25	46.79	47.15	48.38	48.73	49.36	49.78	50.37	50.14
500	40.19	43.55	44.22	44.05	44.4	45.23	46.12	48.76	49.08	49.52	48.88	48.78
630	38.08	41.44	41.96	42.74	43.77	44.4	45.96	47	47.38	47.26	46.87	46.87
800	36.65	39.72	41	41.61	42.01	42.26	43.36	46.6	46.81	46.85	46.53	45.81
1000	32.68	37.12	38	38.75	39.72	40.5	41.61	44.08	44.07	43.75	43.25	42.46
1300	28.69	34.42	35.81	36.85	37.8	38.81	40.03	42.21	42.52	42.83	42.81	42.41
1600	25.91	33.01	34.41	35.85	36.54	37.52	37.92	40.66	40.4	40.03	39.78	39.18
2000	26.15	31	32.74	34.26	35.37	36.19	37.24	38.43	38.3	38.44	38.46	37.75
2500	23.27	28.25	30.79	32.66	33.28	34.21	35.47	37.53	37.38	37.15	37.18	36.91
3200	17.35	24.51	27.53	29.25	29.88	31.1	32.61	35.82	35.71	35.53	35.57	35.02
4000	0	13.3	21.03	23.98	24.35	25.91	27.93	33.01	32.73	32.57	32.54	31.68
5000	0	0	0	0	0	10.59	18.16	28.71	28.54	28.29	28.06	27.52
6300	0	0	0	0	0	0	0	18.99	18.61	17.84	16.79	13.42
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	48.85	52.71	54.51	54.89	55.18	55.91	57.04	57.62	58.14	58.31	58.35	58.33
PNL	54.08	58.46	60.55	61.26	61.6	62.26	63.38	64.13	64.5	64.63	64.8	64.52

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	65.35
160	47.65	49.06	48.61	49.21	48.58	49.49	37.43	35	0	0	29.91	110.36
200	52.53	52.73	52.41	51.4	50.16	48.16	47.91	45.94	44.82	41.63	35.07	114.57
250	47.45	47.88	48.55	48.65	47.01	45.69	46.66	43.96	38.15	34.65	28.39	111.35
320	49.99	49.97	49.52	49.03	48.77	47.52	43.71	40.77	35.22	32.35	28.18	111.9
400	50.15	49.98	49.62	49.02	47.76	45.85	45.01	42.28	38.51	34.74	28.55	112.14
500	47.8	47.55	47.5	46.55	44.97	42.59	43.25	39.71	36.01	32.56	28.57	110.48
630	46.77	46.58	45.72	44.36	42.79	40.19	39.26	35.64	32.19	29.12	25.47	108.72
800	44.9	44.08	42.99	41.79	39.98	37.39	36.91	33.29	29.73	26.31	22.64	107.21
1000	42.33	41.71	40.99	40.05	38.2	35.66	34.18	30.74	27.2	23.58	19.01	104.65
1300	41.64	40.65	39.72	38.54	36.43	33.51	33.03	29.58	25.8	21.52	15.61	103.39
1600	39.16	38.59	37.8	36.18	33.79	30.95	30.19	26.83	22.53	17.36	1.34	101.12
2000	37.56	37.1	36.2	34.71	32.37	29.4	27.86	24.27	19.98	4.63	0	99.55
2500	36.21	35.01	33.9	32.53	30	26.88	26.09	22.21	13.05	0.48	0	97.99
3200	34.11	32.81	31.39	29.57	26.87	23.53	23.32	14.46	0	0	0	95.74
4000	30.86	29.72	28.1	25.79	21.44	6.58	18.56	0	0	0	0	92.19
5000	26.65	24.57	21.44	14.39	0	0	0	0	0	0	0	87.05
6300	4.38	0	0	0	0	0	0	0	0	0	0	75.44
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	58.38	58.44	58.12	57.55	56.42	55.18	53.23	50.58	47.41	44.09	38.83	120.7
PNL	64.33	63.99	63.39	62.44	61.12	59.09	56.38	52.74	47.79	42.86	35.73	62.75

NASA Lewis Allison AST Jet Noise Test 1996

rdg	425
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	824
m01	0.30118
pamb	14.3972
tamb	495.794
rhumid	79.91
winds1	0
nprc	1.393
nprb	1.443
ptc	20.0553
ptb	20.7752
wactc	2.69
wactb	13.507
ttc	1192.34
ttb	507.811
ptmix	20.6556
ttmix	621.496
mixpnd	0.674161
grsvtp	13346.3
badchan	(26)
bkgnd	411
escdate	04.Dec.96
esctime	17:52.52
DADSdate	97.08.25
DADStime	17:52:52
btchdate	04.Dec.96
btchtime	17:52:52

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 10:51:36 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	65.79	66.44	68	68.09	67.57	68.57	70.29	69.96	69.3	70.5	70.85	71.15	72.14	73.03	71.92	70.45	71.61	72.89	73.46	73.91	74.27	74.79	76.53	113.94
100	52.77	53.8	64.92	68.84	69.5	70.35	69.95	69.55	69.93	70.41	70.86	71.37	71.87	71.78	71.66	71.89	72.28	72.71	72.97	72.98	73.71	75.9	79.54	113.98
130	0	67.94	69.2	70.22	69.89	68.64	67.87	67.76	68.71	69.24	68.14	69.31	69.62	69.89	70.48	71.34	72.41	73.92	75.46	76.43	76.71	76.8	78.4	114.17
160	68.15	67.46	69.19	69.81	68.64	68.4	69.36	70.02	70.49	70.08	70.31	71.31	70.63	71.19	72.34	73.26	74.32	74.83	75.25	76.27	76.8	76.57	77.54	114.86
200	68.73	69.26	68.4	69.91	69.85	69.47	71.6	70.93	71.37	71.87	72.56	73.94	73.71	73.61	74.22	74.34	73.74	74.29	75.6	76.37	76.56	76.61	77.47	115.81
250	70.21	71.13	71.14	72.03	71.91	71.03	72.21	72.77	73.16	73.39	73.96	74.51	74.17	74.42	75.1	75.86	76.79	77.48	77.53	76.96	76.46	76.44	76.64	117.17
320	71.43	72.87	72.69	72.82	72.5	73	74.3	74.12	74.58	74.75	74.48	75.55	75.92	76.77	77.58	77.56	76.94	77.06	77.35	76.51	75.45	74.94	74.66	118.12
400	70.65	72.03	73.24	73.14	73.11	74.12	74.49	75.04	74.95	76.03	75.69	76.11	76.97	76.48	76.36	76.65	76.24	74.86	74.27	74.66	75.07	73.99	73.24	118.02
500	71.24	73.52	73.69	73.21	73.85	74.87	74.33	75.04	75.54	75.45	76.06	76.28	76.58	76.54	76.87	77.28	76.84	76.29	75.8	75.06	74.05	72.77	71.98	118.3
630	71.79	73.93	73.8	73.4	74.73	74.71	75.12	75.46	75.59	75.69	76	76.16	76.27	76.59	76.78	76.33	75.29	74.74	74.46	73.81	72.85	71.82	70.77	118.12
800	72.01	73.91	73.69	74.61	74.01	74.79	74.81	75.63	75.94	76.36	77.04	76.82	76.75	76.79	76.8	76.55	75.66	74.75	73.96	73.14	72.12	70.9	70.19	118.34
1000	70.92	72.4	72.52	72.79	73.39	73.9	74.38	74.93	75.36	75.39	75.7	76.17	76.28	75.75	75.78	75.81	74.16	72.91	72.44	71.79	70.97	69.63	69.26	117.37
1300	71.03	72.8	72.73	72.63	73.76	74.25	74.61	74.56	74.65	75.06	75.06	75.12	75.88	76.01	75.57	74.84	73.72	72.5	71.49	70.52	69.43	68.29	68.42	117.06
1600	71.36	72.82	72.73	72.78	73.06	73.41	73.32	73.6	73.65	74.07	74.6	75.03	75.35	75.26	75.35	75.16	73.53	71.75	70.43	69.43	68.4	67.35	67.38	116.52
2000	70.96	72	72.32	72.43	72.66	73.14	73.5	73.45	73.45	73.41	73.92	74.42	74.37	74.68	74.92	74.3	72.36	70.57	69.37	68.36	67.24	66.21	66.62	115.97
2500	70.4	71.47	71.77	72.03	72.69	72.77	73.07	72.96	72.71	72.44	72.65	73.21	72.89	72.85	73.04	72.37	70.51	69.04	68.22	67.4	66.4	65.41	65.55	114.97
3200	70.22	71.41	72.28	72.66	72.97	73.4	73.72	73.04	72.94	72.59	72.69	72.71	72.08	71.76	71.49	70.67	69.39	68.13	67.13	66.4	65.34	64.09	64.53	114.82
4000	69.96	72.07	72.61	72.62	72.97	73.55	74.12	73.05	73	72.29	72.55	72.33	71.81	70.71	70.14	69.8	68.53	67.29	66.45	65.69	64.46	62.94	63.39	114.68
5000	69.8	71.62	72.36	72.84	72.32	73.5	74.4	73.66	73.09	72.56	72.73	72.15	71.43	70.34	69.72	69.21	67.72	66.33	65.54	64.98	63.72	61.99	62.79	114.8
6300	69.67	71.9	72.66	73.13	72.44	73.58	74.81	74.11	73.8	73.2	72.41	72.19	71.52	70.54	69.84	68.99	67.23	65.74	65	64.55	63.3	61.49	62.72	114.83
8000	69.61	72.21	73.12	73.42	72.91	73.14	75.19	74.37	74.52	73.91	72.85	72.78	71.72	70.5	69.54	68.42	66.76	65.62	65.06	64.48	63	61.11	62.63	115.12
10000	69	70.6	70.79	71.92	72.21	72.45	73.23	72.65	72.72	71.53	71.02	69.55	68.66	67.97	67.33	66.65	65.47	63.87	62.66	62.27	60.61	58.26	59.75	113.29
OASPL	83.35	85.03	85.41	85.74	85.86	86.34	86.93	86.88	87	87.07	87.24	87.49	87.56	87.52	87.63	87.56	86.93	86.6	86.58	86.46	86.18	85.95	86.92	129.64

NASA Lewis Allison AST Jet Noise Test 1996

rdg	425
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	824
m01	0.30118
pamb	14.3972
tamb	495.794
rhumid	79.91
winds1	0
nprc	1.393
nprb	1.443
ptc	20.0553
ptb	20.7752
wactc	2.69
wactb	13.507
ttc	1192.34
ttb	507.811
ptmix	20.6558
ttmix	621.498
mixpnd	0.674161
gravisp	13346.3
badchan	(26)
bkgnd	411
escdate	04.Dec.96
escsime	17:52.52
DADSdate	97.08.25
DADStime	17:52:52
btchdate	04.Dec.96
btchtime	17:52:52

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:51:48 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (f	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	44.49	45.16	46.62	49.15	48.11	48.75	48.03	49.92	50.06	49.95	50.49	50.73	52.44	50.77	49.13	48.09	47.21	49.28	48.73	47.51	45.4	43.25	46.72	113.77
80	0	0	46.41	46.9	49.25	48.81	48.48	49.48	48.29	47.77	48.76	48.22	48.94	48.75	48.55	48.56	48.18	50.31	48.47	46.72	45.46	45.36	46.06	112.92
100	39.54	46.63	47.44	48.07	47.73	48.56	48.13	47.65	48.41	49.3	48.6	49.92	49.28	49.38	50.85	50.84	50.56	51.03	50.61	50.24	48.83	47.05	46.07	114.38
130	46.68	45.22	48.93	48.57	48.57	49.56	51.1	49.84	49.4	50.62	50.58	52.1	50.69	50.43	49.57	51.43	50.02	49.17	50.31	49.99	48.67	46.14	44.27	114.68
160	46.31	46.39	47.79	50.18	50.42	50.02	52.07	50.65	51.29	50.97	51.8	52.84	52.12	52.95	52.49	53.02	52.69	53.53	50.56	49.92	48.3	46.23	45.3	116.08
200	48.46	50.11	50.8	52.08	52.11	52.49	53.74	52.34	53.73	54.12	54.64	55.01	55.03	55.43	56.01	55.25	54.2	52.93	52.36	50.33	48.77	46.47	43.54	117.93
250	48.82	50.26	50.59	50.54	51.66	52.46	53.29	53.52	53.32	53.42	52.84	53.41	53.45	53.73	53.72	53.78	52.4	50.02	51.99	49.59	46.9	44	40.8	118.74
320	47.57	50.12	51.44	51.6	51.3	53.17	52.83	54.12	54.57	55.22	54.49	54.46	55.19	53.91	53.47	53.46	52.4	51.02	48.41	47.52	46.05	42.8	39.16	117.02
400	47.32	50.69	51.7	51.45	53.51	53.54	53.68	53.77	54.55	54.7	55.33	55.07	54.57	54.25	53.9	52.56	50.54	48.94	49.17	47.15	44.25	40.47	36.32	116.98
500	47.37	50.22	50.21	51.3	51.11	52.33	52.59	53.82	53.67	54.12	54.53	54.39	53.77	53.2	52.67	51.94	50.15	48.38	47.5	45.17	42.23	38.49	33.66	116.08
630	46.97	48.92	49.11	50.05	50.4	51.47	51.77	53.55	53.54	53.57	53.31	53.33	53.21	52.71	51.98	50.97	48.54	45.86	46.23	43.67	40.41	36.39	31.4	115.21
800	45.14	47.99	48.55	48.66	50.18	50.69	51.46	52.37	52.64	52.45	52.56	52.3	52.3	51.41	50.43	49.11	46.83	44.59	43.88	41.4	38.19	33.83	28.82	114.12
1000	44.84	46.96	47.74	48.39	49.27	49.77	49.77	51.54	51.48	51.79	51.6	51.53	51.53	50.79	49.97	49.03	46.26	43.06	42.06	39.16	35.6	30.99	25.97	113.26
1300	44.16	46.32	46.89	46.9	47.86	48.61	49.08	50.01	50.11	50.2	50.39	50.18	50.01	49.78	48.99	47.29	44.38	41.21	40.11	37.06	33.27	28.43	22.95	111.94
1600	42.54	44.41	45.38	46.26	46.85	47.32	47.78	49.15	48.92	48.67	48.85	48.98	48.31	47.44	46.65	44.98	41.76	38.56	38.17	34.84	30.83	25.82	19.95	110.38
2000	40.04	42.26	43.27	44.39	45.41	46.09	46.72	47.69	47.36	46.95	46.85	46.61	45.52	44.72	43.72	41.74	38.97	36.03	35.68	32.48	28.2	22.68	10.23	108.36
2500	37.17	39.47	41.45	42.3	43.35	44.22	45	46.3	46.18	45.56	45.19	44.92	43.73	42.13	40.66	38.82	36.01	32.83	32.92	29.48	24.76	15.88	0	106.48
3200	32.5	36.05	37.75	38.74	39.19	40.74	41.92	44.06	44.05	43.16	43.21	42.23	40.86	38.93	37.15	35.3	32.24	28.61	28.61	25.77	18.84	0	0	103.63
4000	25.06	29.13	31.37	32.97	33.29	35.06	36.75	41.2	40.59	39.85	39.52	38.56	36.92	34.85	33.06	30.64	26.77	21.3	24.79	18.98	0	0	0	99.54
5000	0	16.53	21.13	24	24.38	26.07	28.91	36.27	35.99	35.29	34.14	33.25	31.63	29.11	26.42	22.56	11.67	0	10.19	0	0	0	0	93.87
6300	0	0	0	0	0	0	0	28.29	28.39	27.35	25.32	23.81	20.49	13.03	0	0	0	0	0	0	0	0	0	84.77
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	57.87	60.03	60.86	61.64	62.21	62.86	63.37	63.91	64.12	64.32	64.4	64.57	64.4	64.06	63.74	63.28	61.94	61.18	60.51	59.05	57.18	54.85	53.82	127.1
PNL	66.17	68.42	69.56	70.43	71.07	71.75	72.31	72.47	72.41	72.25	72.19	72.19	71.6	70.93	70.18	69.03	67.16	65.37	63.45	61.05	57.67	53.45	48.88	70.48

NASA Lewis Allison AST Jet Noise Test 1996

rdg	427
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	CONV
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	944
m01	0.30135
pamb	14.3999
tamb	495.929
rhumid	80.02
winds1	0
nprc	1.547
nprb	1.618
ptc	22.2766
ptb	23.299
wactc	3.009
wactb	18.03
ttc	1336.13
ttb	507.648
ptmix	23.1375
ttmix	638.585
mixpnd	0.761936
grsvisp	17972.8
badchan	(26)
bkgnd	411
escdate	04.Dec.96
esctime	18:00:37
DADSdate	97.08.25
DADStime	18:00:37
bichdate	04.Dec.96
bichtime	18:00:37

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 10:54:26 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90
roll angle (	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90
80	69.02	72.19	72.84	72.9	74.97	73.94	75.72	74.77
100	73.23	74.87	75.25	74.97	74.75	74.11	75.33	75.86
130	71.91	74.64	73.88	73.77	73.17	73.28	73.93	73.4
160	73.1	74.23	75.33	73.76	73.38	74.5	74	75.15
200	73.69	75.04	75.01	75.56	75.64	76.58	75.84	75.69
250	75.23	75.75	76.87	76.09	76.11	75.54	76.25	76.47
320	75.5	77.54	77.82	77.56	77.87	77.3	78.28	78.01
400	76.19	77.85	77.82	76.72	78.14	78.05	78.38	79.09
500	76.72	78.69	78.35	77.75	78.48	79.01	79.42	79.23
630	76.75	78.18	78.02	78.68	78.79	79.34	79.8	79.78
800	76.34	78.44	78.49	78.45	78.81	78.87	79.49	79.59
1000	76.74	78.31	77.87	78	78.36	78.29	79.65	79.4
1300	76.25	77.5	77.38	77.15	77.98	78.54	79.61	79.61
1600	76.58	77.41	77.71	77.22	78.49	78.59	79.37	79.32
2000	77.05	77.62	77.67	77.83	78.52	78.75	79.47	79.66
2500	76.1	78.36	76.9	77.1	77.99	77.86	78.64	78.73
3200	75.51	75.61	76.08	76.94	77.8	77.32	78.31	77.71
4000	74.73	75.72	76.17	77.05	77.47	76.92	78.22	77.04
5000	74.28	75.12	75.76	76.75	76.42	76.1	77.5	77.04
6300	73.84	74.95	75.85	76.52	75.86	75.85	77.07	77.03
8000	73.51	74.78	75.71	76.54	75.59	75.79	77.07	76.6
10000	72.4	72.88	73.04	74.74	74.31	74.84	74.18	74.39
OASPL	88.56	89.85	90.06	90.13	90.52	90.57	91.34	91.26

distance: (	150	150	150	150	150	150	150	150
yaw angle	95	100	105	110	115	120	125	130
roll angle (	0	0	0	0	0	0	0	0
frequency	95	100	105	110	115	120	125	130
80	73	73.28	74.66	74.37	74.98	75.35	76.55	77.93
100	75.01	75.58	75.33	76.2	76.93	77.54	77.72	77.96
130	72.92	73.69	73.75	75.57	75.8	76.59	78.35	79.73
160	76.17	75.87	76.76	77.49	79.03	79.57	79.68	80.18
200	75.77	76.47	78.15	78.46	79.08	79.24	79.77	80.86
250	77.22	78.16	78.08	78.95	80.25	80.7	81.05	81.77
320	77.78	77.63	79.33	79.92	80.78	80.66	81.14	82.27
400	79.39	80.15	81.18	80.71	81.19	81.78	82.09	82.22
500	79.39	80.01	80.49	80.92	81.19	81.5	81.94	82.14
630	80.38	80.81	80.99	81.13	81.22	81.39	81.46	81.28
800	80.19	80.78	80.67	81.27	82.04	82.32	82.28	81.76
1000	80.63	81.31	81.22	81.79	82.42	82.42	82.04	81.15
1300	80.18	80.84	81.08	81.94	82.7	82.77	82.35	81.28
1600	80.03	80.99	81.45	82.28	83.26	83.16	82.32	81.05
2000	80.31	80.83	82.1	82.92	83.62	83.36	82.75	81.69
2500	79.02	79.81	80.98	81.77	82.44	82.04	81.25	80.37
3200	77.81	78.51	78.96	79.42	80.04	79.55	78.86	78.23
4000	76.85	77.48	77.53	77.73	78.05	76.78	75.94	75.99
5000	76.23	76.73	77.25	77	76.49	75.4	74.62	74.21
6300	76.08	76.85	76.87	76.5	76.14	75.05	74.19	73.67
8000	75.62	76.54	77.27	76.8	76.13	74.66	73.52	72.91
10000	73.26	73.74	75.63	73.73	73.3	72.37	71.39	71.06
OASPL	91.48	92.1	92.87	93.11	93.71	93.7	93.57	93.46

distance: (	150	150	150	150	150	150	150	
yaw angle	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	
frequency	135	140	145	150	155	160	165	PWL
80	77.57	78.18	79.83	81.13	82.46	84.45	87.3	119.78
100	79.26	80.66	81.77	82.74	84.13	86.37	89.2	121.37
130	79.92	80.21	81.21	82.86	84.47	85.85	87.78	120.88
160	80.71	81.99	83.46	84.43	85.17	86.05	87.07	122.13
200	81.57	81.9	82.31	82.97	83.55	83.86	84.33	121.91
250	82.7	83.99	84.9	84.73	84.43	84.72	85.28	123.11
320	82.39	82.61	83.24	83.62	83.39	82.57	81.76	123.02
400	82.38	82.42	82.14	81.58	81.28	81.49	81.26	123.26
500	81.81	81.61	81.48	80.97	80.23	79.43	79.25	123.14
630	80.9	80.19	79.97	80.45	80.13	78.71	78.07	123.07
800	80.75	80.19	79.78	78.83	77.63	76.64	76.67	123.1
1000	79.6	78.97	78.82	77.96	78.93	78.28	76.36	123
1300	79.49	78.4	77.97	77.14	76.12	75.38	75.51	122.9
1600	79.06	77.57	76.66	75.73	74.91	74.4	74.56	122.95
2000	79.47	77.34	75.95	74.97	74.2	73.54	73.46	123.23
2500	78.63	76.64	75.08	74.18	73.34	72.38	72.52	122.14
3200	76.69	75.06	73.87	72.94	72.05	71.22	71.5	120.59
4000	74.87	73.47	72.38	71.58	70.5	69.3	70.02	119.42
5000	73.23	72.12	71.19	70.43	69.33	68.03	68.92	118.61
6300	72.46	71.24	70.37	69.64	68.53	67.29	68.53	118.31
8000	71.73	70.59	69.86	69.34	68.22	66.74	67.96	118.14
10000	70.4	68.69	67.05	66.73	65.84	63.92	64.86	118
OASPL	92.99	92.94	93.28	93.51	93.78	94.4	95.75	135.21

NASA Lewis Allison AST Jet Noise Test 1996

rdg	427
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	944
m01	0.30135
pamb	14.3999
tamb	495.929
rhumid	80.02
winds1	0
nprc	1.547
nprb	1.618
ptc	22.2766
ptb	23.299
wactc	3.009
wactb	16.03
ttc	1336.13
ttb	507.648
ptmix	23.1375
ttmix	838.585
mixpnd	0.761936
grsvtxp	17972.8
badchan	[26]
bkgnd	411
escdate	04.Dec.96
esctime	18:00:37
DADSdate	97.08.25
DADStime	18:00:37
btchdate	04.Dec.96
btchtime	18:00:37

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date Wed Aug 27 10:54:35 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500
yaw angle	55	60	65	70	75	80	85	90
roll angle (	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90
64	49.14	52.17	53.27	55.24	54.59	53.02	53.78	54.73
80	49.71	53.65	53.22	51.54	52.79	53.44	54.38	55.78
100	50.73	53.09	52.08	53.21	52.02	53.81	52.7	53.29
130	51.03	52.83	54.73	53.42	53.94	56.21	54.88	54.97
160	51.65	53.67	53.73	54.35	55.31	54.92	56.17	55.61
200	53.71	54.17	56.45	55.99	57.08	56.72	57.54	56.03
250	52.79	55.23	55.25	55.21	55.8	56.54	57.38	57.4
320	52.44	55.75	56.01	56.62	57.13	57.61	58.02	58.17
400	52.79	55.07	55.52	56.2	56.94	57.5	58.07	57.97
500	52.34	54.43	54.76	55.5	55.84	56.48	57.34	58.14
630	51.66	54.33	54.73	55.1	55.67	55.82	57.07	57.49
800	50.94	53.12	53.42	53.53	54.51	55.03	56.41	56.85
1000	49.83	52	52.69	52.59	54.37	54.84	55.71	56.56
1300	49.64	51.18	52.15	52.38	53.45	54.12	55.09	55.71
1600	48.56	49.86	50.48	51.32	52.56	52.73	53.35	55.35
2000	45.73	46.79	48.06	49.29	50.38	50.22	51.59	53.46
2500	42.33	43.69	45.29	46.52	48	47.73	49.15	51
3200	37.26	39.58	40.92	42.96	43.53	43.44	45.1	48.07
4000	29.94	32.5	34.81	36.61	36.93	37.59	38.98	44.66
5000	15.51	21.59	25.05	27.68	27.99	26.87	31.02	39.23
6300	0	0	0	0	0	0	5.35	30.7
8000	0	0	0	0	0	0	0	4.05
10000	0	0	0	0	0	0	0	0
OASPL	63.26	65.49	66.08	66.27	67.02	67.43	68.11	68.52
PNL	72.07	73.92	74.67	75.28	76.29	76.59	77.39	77.6

distance (	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11
yaw angle	95	100	105	110	115	120	125	130
roll angle (	0	0	0	0	0	0	0	0
frequency	95	100	105	110	115	120	125	130
64	53.05	53.96	53.9	53.41	56.64	58.42	55.41	53.86
80	53.61	53.43	54.71	54.95	54.3	55.8	56.6	57.64
100	52.32	53.51	52.85	56.73	56.55	55.87	57.86	57.68
130	55.08	55.67	56.08	56.55	58.27	58.27	57	58.32
160	55.3	55.52	57.4	57.85	57.88	58.74	58.17	59.1
200	57.4	58.31	58.83	59.29	59.61	59.66	59.75	59.7
250	56.66	56.25	57.08	56.09	58.79	58.83	59.01	58.98
320	58.76	59.67	60.16	59.39	59.41	59.09	58.96	58.52
400	58.3	58.71	59.18	59.24	58.86	58.51	58.43	57.7
500	58.59	58.78	58.45	58.81	59.18	59.03	58.33	57.05
630	57.98	58.61	58.44	58.73	58.81	58.65	57.88	56.32
800	57.99	58.34	57.97	58.28	58.77	58.1	56.97	55.4
1000	57.12	57.87	57.81	58.45	58.9	58.36	58.84	54.6
1300	56.32	56.98	57.84	58.15	58.59	58.13	58.75	54.56
1600	55.96	56.27	57.18	57.81	57.83	58.56	55.03	53.07
2000	53.59	54.07	54.54	54.52	54.49	53.2	51.57	49.65
2500	50.97	51.28	51.18	50.96	50.7	48.81	46.89	45.32
3200	47.85	48.23	48	47.38	46.65	44.33	42.22	40.64
4000	43.76	44.05	43.94	42.95	41.71	39.7	37.81	35.37
5000	38.22	38.82	38.54	37.55	36.08	33.37	30.61	27.93
6300	29.59	30.12	30.36	28.5	26.21	22.33	16.07	-2.88
8000	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0
OASPL	68.74	69.23	69.59	69.95	70.29	70.05	69.56	69.1
PNL	77.84	78.26	78.78	79.11	79.19	78.3	77.13	75.74

distance (	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	
frequency	135	140	145	150	155	160	165	PWL
64	53.38	57.13	55.1	54.71	53.58	52.9	57.27	119.99
80	56.55	58.76	57.24	56.47	55.9	55.93	55.86	120.85
100	56.81	58.14	58.42	56.65	56.66	58.09	55.43	121.04
130	57.85	56.64	58.48	58.15	57.11	55.83	54.05	121.82
160	59.13	60.13	57.27	56.51	55.35	53.59	52.75	121.96
200	59.11	58.06	59.74	58.1	56.91	54.86	52.12	123.06
250	58.73	57.77	57.88	56.7	54.82	51.7	47.88	122.01
320	57.3	58.38	56.31	54.24	52.06	49.93	46.92	122.15
400	56.36	54.44	54.95	53.07	50.57	47.37	43.58	121.47
500	55.17	53.7	52.93	51.8	49.51	45.34	40.91	121.01
630	53.89	51.83	51.99	49.34	45.82	42.15	38.03	120.45
800	52.76	50.59	50.28	47.56	44.16	40.32	35.88	119.76
1000	51.82	48.89	48.59	45.78	42.27	38.13	33.14	119.37
1300	51.22	47.86	46.44	43.38	39.79	35.48	30.05	118.89
1600	49.77	46.11	44.7	41.48	37.78	33.06	26.74	117.88
2000	46.45	43.01	42.59	39.27	35.17	29.73	23.02	115.1
2500	42.56	39.22	39.67	36.03	31.44	25.47	14.04	111.85
3200	37.77	34.33	35.67	31.69	26.45	16.65	0	108.13
4000	32.03	28.11	30.52	26.1	17.23	0	0	103.48
5000	23.09	12.36	23.01	10.36	0	0	0	97.45
6300	0	0	0	0	0	0	0	88.05
8000	0	0	0	0	0	0	0	65.57
10000	0	0	0	0	0	0	0	85.35
OASPL	67.98	67.63	67.38	66.3	65.06	63.59	63.09	132.87
PNL	73.34	71.71	70.28	68.19	65.86	62.75	59.29	76.81

NASA Lewis Allison AST Jet Noise Test 1996

rdg 428
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 992.06
m01 0.30097
pamb 14.4004
tamb 496.038
rhumid 80.8
winds1 0
nprc 1.745
nprb 1.822
ptc 25.1287
ptb 26.2375
wactc 3.335
wactb 18.343
ttc 1417.74
ttb 507.787
ptmix 26.0669
ttmix 647.776
mixpnd 0.795026
grsvixp 21505.9
badchan (25,26)
bkgnd 411
escdate 04.Dec.96
esctime 18:05:14
DADSdate 97.08.18
DADStime 18:05:14
btchdate 04.Dec.96
btchtime 18:05:14
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 15:40:40 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.14	74.69	75.33	75.99	76.63	77.22	77.73	78.16	78.49	78.73	78.9	79.09	79.39	79.85	80.51	81.41	82.56	83.98	85.56	87.29	89.18	91.47	94.81	125.16
100	77.13	77.29	77.5	77.73	77.99	78.25	78.52	78.79	79.05	79.3	79.57	79.91	80.39	81.03	81.87	82.93	84.2	85.7	87.33	89	90.73	92.69	95.22	126.46
130	76.46	77.56	78.02	78.1	77.99	77.82	77.66	77.58	77.64	77.65	78.24	78.63	79.63	80.82	81.82	83.2	84.76	86.5	88.3	90.02	91.68	93.4	95.37	126.85
160	78.36	78.96	79.22	79.24	79.13	79.03	79.02	79.17	79.52	80.11	80.82	81.36	81.95	82.72	83.59	84.54	85.62	86.85	88.15	89.41	90.63	91.93	93.43	126.9
200	78.34	79.13	79.63	79.92	80.1	80.24	80.4	80.6	80.84	81.15	81.55	82.04	82.66	83.39	84.22	85.17	86.22	87.38	88.55	89.63	90.59	91.51	92.45	127.26
250	79.11	79.61	79.9	80.09	80.25	80.44	80.7	81.04	81.48	82.01	82.64	83.37	84.18	85.05	85.99	86.96	87.98	89.02	89.97	90.69	91.13	91.32	91.1	128.2
320	79.91	80.86	81.26	81.37	81.33	81.27	81.23	81.26	81.39	81.88	82.11	82.73	83.51	84.49	85.65	86.7	87.21	87.77	88.42	88.93	89.06	88.8	88.52	127.35
400	80.03	80.54	80.91	81.17	81.36	81.57	81.91	82.41	83	83.63	84.26	84.68	85.23	86.24	87.07	87.35	87.52	87.82	88.18	88.44	88.48	88.25	87.57	127.91
500	80.83	81.65	82.07	82.28	82.4	82.52	82.7	82.89	83.09	83.44	83.89	84.28	84.87	85.56	86.16	86.7	87.05	87.3	87.46	87.51	87.42	87.18	86.57	127.6
630	80.27	81.43	81.88	82.03	82.16	82.33	82.56	82.91	83.25	83.59	84.07	84.58	85.27	85.98	86.41	86.44	86.2	86	85.89	85.8	85.58	85.21	84.79	127.2
800	81.11	82.53	82.7	82.55	82.58	82.81	83.2	83.62	83.89	84.34	85.1	85.9	86.51	86.69	86.4	85.88	85.41	85.09	84.79	84.42	84.01	83.57	83.22	127.43
1000	82.18	83.53	83.61	83.4	83.41	83.71	84.07	84.54	85.04	85.45	85.92	86.25	86.74	87.14	86.83	85.94	85.06	84.39	83.86	83.38	82.99	82.7	82.52	127.88
1300	83.07	84.79	85.15	85.07	84.93	84.93	85.32	85.69	86.22	86.87	87.43	87.77	88.07	88.45	87.76	86.11	84.63	83.5	82.67	82.03	81.53	81.19	81.19	128.85
1600	84.22	85.7	85.97	86.22	86.25	86.23	86.41	86.77	87.4	88.1	89.16	89.93	90.47	90.97	89.97	87.54	85.3	83.53	82.23	81.35	80.77	80.4	80.58	130.38
2000	85.64	87.35	87.42	87	86.72	86.79	87.14	87.89	88.69	89.88	91.13	92.06	92.91	93.23	92.15	89.59	86.66	84.23	82.5	81.26	80.43	80.02	80.22	132.07
2500	86.95	88.16	88.04	87.51	86.88	86.57	86.7	87.22	88.28	89.82	91.54	92.76	93.26	93.07	91.76	89.43	86.68	84.25	82.34	80.69	79.91	79.41	79.58	132.19
3200	87.79	88.59	88.63	87.94	86.85	86.33	86.5	86.56	87.34	88.45	89.63	90.59	90.99	90.65	89.69	88.06	85.86	83.57	81.57	80.04	78.97	78.44	78.67	130.92
4000	87.76	89.04	89.49	88.78	87.48	87.06	86.95	86.47	86.73	87.48	88.54	89.24	89.23	88.51	87.53	86.29	84.36	82.3	80.49	79.05	78	77.44	77.73	130.27
5000	86.33	88.44	89.38	88.71	87.08	87.06	87.34	86.78	86.56	86.84	87.88	88.37	88.04	87.2	86.18	84.85	83.05	81.14	79.4	78.01	77.04	76.56	76.96	129.69
6300	85.12	87.42	88.46	87.84	86.49	86.68	87.44	87.07	86.71	86.79	87.33	87.65	87.2	86.32	85.3	84.02	82.19	80.33	78.71	77.44	76.58	76.24	76.75	129.15
8000	83.72	86.56	87.39	87.23	86.22	86.21	87.08	86.9	86.84	86.81	87.38	87.36	86.55	85.57	84.49	83.18	81.66	80.13	78.74	77.55	76.65	76.21	76.55	128.7
10000	81.29	83.96	84.53	84.52	84.52	84.6	84.6	84.34	84	84.03	84.63	84.06	83.26	82.65	82.07	81.34	80.26	78.61	76.85	75.54	74.61	73.91	73.94	126.16
OASPL	96.73	98.24	98.66	98.32	97.88	97.64	97.94	98.02	98.39	99.07	100.01	100.7	101.06	101.12	100.56	99.58	98.85	98.71	99.04	99.62	100.31	101.2	102.57	142.23

NASA Lewis Allison AST Jet Noise Test 1996

rdg	428
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	BASE
anoz	41.226
ambc	35.02
amxb	78.39
scale	4
vtd	992.06
m01	0.30097
pamb	14.4004
tamb	496.038
rhumid	80.8
windsT	0
nprc	1.745
nprb	1.822
ptc	25.1287
ptb	26.2375
wactc	3.335
wactb	18.343
ttc	1417.74
ttb	507.787
ptmix	26.0669
ttmix	647.776
mixpnd	0.795026
grevisp	21505.9
badchan	(25,26)
bkgnd	411
escdate	04 Dec 96
esctime	18:05:14
DADSdate	97.08.18
DADStime	18:05:14
btchdate	04 Dec 96
btchtime	18:05:14

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 15:40:45 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	53.44	53.88	54.13	57.47	56.85	56.68	56.7	58.12	59.67	58.99	58.81	58.42
80	53.6	56.04	56.21	55.16	57.02	56.83	58.07	58.72	57.49	56.81	58.68	58.31
100	55.88	56.48	57.02	57.85	57.32	58.47	57.61	57.47	57.23	58.47	58.11	59.93
130	56.25	57.27	58.57	58.6	59.29	60.07	59.64	58.99	58.53	59.92	60.04	60.95
160	56.24	57.52	57.57	58.6	59.27	59.89	60.72	60.32	60.84	60.54	61.06	61.82
200	57.29	57.79	58.93	59.93	60.63	60.96	60.83	60.62	61.48	62.18	62.66	62.45
250	57.23	58.56	58.87	58.75	59.6	60.21	60.83	60.65	60.35	60.45	60.75	61.69
320	56.62	58.35	59.41	60.38	60.48	60.99	61.19	61.49	62.28	62.82	63.11	62.91
400	56.67	58.12	59.1	58.63	60.15	60.51	60.9	61.63	61.9	61.98	62.57	62.66
500	58.13	57.97	58.7	59.28	59.64	60.23	60.88	61.25	61.51	61.86	62.36	62.83
630	58.31	58.78	58.71	59.83	60.43	60.92	61.46	61.53	61.72	62.34	62.88	63.18
800	58.68	58.81	58.71	60.16	60.52	61.13	61.9	61.98	62.54	62.74	63.18	63.4
1000	56.86	59.39	60.39	61.23	61.83	62.14	62.68	62.63	63.25	63.92	64.49	64.92
1300	57.29	59.75	60.96	61.45	61.76	62.23	62.73	63.18	63.83	64.68	65.8	66.41
1600	57.46	60.16	60.81	61.01	61.01	61.08	61.4	63.39	64.35	65.52	66.72	67.65
2000	56.86	59.06	59.91	59.75	59.32	59.33	59.65	61.96	62.88	64.2	65.43	65.92
2500	54.76	56.6	57.78	58.09	57.61	57.47	57.7	59.83	60.46	61.23	61.96	62.23
3200	50.26	53.11	54.68	54.99	54	54.36	54.83	57.47	57.74	58.21	58.63	59.01
4000	42.11	45.77	48.09	48.5	47.6	48.22	49.27	54.32	54.02	54.03	54.38	54.32
5000	30.28	35.11	37.89	38.84	38.79	39.68	41.02	49.24	48.9	48.77	48.91	48.63
6300	0	16.54	21.63	23.55	24.21	25.71	26.71	41	40.69	40.51	40.4	39.11
8000	0	0	0	0	0	0	0	26.4	25.59	24.59	23.67	20.54
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.72	70.54	71.41	71.91	72.21	72.61	73	73.59	74.08	74.68	75.38	75.84
PNL	80.08	82.26	83.19	83.51	83.59	83.85	84.24	84.79	85.39	86.24	87.11	87.53

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	60.64	59.78	59.23	59.16	59.37	62.25	60.82	60.9	60.33	59.95	64.56	125.3
80	57.54	59.71	60.21	60.79	60.81	62.92	62.82	62.74	62.51	62.24	61.8	125.88
100	59.65	59.5	61.61	61.6	61.47	63.06	63.47	63.62	63.69	63.66	63.07	126.84
130	61.01	62.01	61.95	63.01	62.86	62.6	63.2	63.13	62.51	61.56	60.25	126.66
160	61.77	62.98	63.24	64.32	64.48	65.17	63.53	63.18	62.36	61.17	60.31	127.36
200	63.02	63.71	64.27	64.05	64.07	63.35	64.89	64.06	63.23	61.2	57.87	127.75
250	62.4	63.04	63.95	64.22	63.67	62.98	63.03	62.02	60.6	58.14	54.86	126.62
320	63.49	63.89	63.74	63.35	62.82	62.24	62.33	61.1	59.5	56.95	53.32	126.7
400	62.75	62.93	63.07	62.47	61.38	60.08	60.98	59.61	57.59	54.86	50.6	125.77
500	63.08	62.84	62.23	61.34	60.02	58.73	58.81	57.16	55.01	51.96	47.72	125.03
630	63.31	63.38	62.5	60.84	59.13	57.2	57.06	54.95	52.23	49.01	44.47	125.04
800	63.52	63.3	62.18	60.14	57.86	55.63	55.3	52.99	50.21	46.67	41.89	124.97
1000	65.1	65.25	63.74	60.8	57.82	54.81	53.23	50.67	47.63	43.92	38.84	126
1300	66.85	67.01	65.51	62.08	58.11	54.42	51.95	48.98	45.73	41.56	36.21	127
1600	67.97	67.33	65.11	61.63	57.67	53.7	51.1	47.72	43.98	39.54	33.51	127.31
2000	65.55	64.39	62.34	59.25	55.52	51.51	49.78	45.95	41.71	36.67	30.01	125.42
2500	61.75	60.25	58.24	55.59	52.04	48.03	47.37	43.04	38.37	32.8	25.17	122.31
3200	58.13	56.26	53.93	51.27	47.63	43.44	43.74	39.2	33.97	27.47	15.75	119.01
4000	53.07	51.21	48.91	45.8	41.79	37.15	38.82	33.72	27.71	17.45	0	114.14
5000	46.97	44.63	41.68	38.1	33.73	28.63	31.99	25.93	13.64	0	0	108.01
6300	38.83	33.92	30.52	26.18	19.91	0	21.54	0	0	0	0	98.78
8000	14.75	0	0	0	0	0	0	0	0	0	0	82.25
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	76.03	75.97	75.26	74.24	73.27	73.08	73.02	72.39	71.54	70.35	69.96	138.54
PNL	87.49	86.98	85.46	83.09	80.38	78.08	76.58	74.81	72.93	70.22	66.85	84.64

100%L, 12UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	138
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	588.04
m01	0.06758
pamb	14.2352
tamb	500.162
rhumid	59.1
winds1	0
nprc	1.167
nprb	1.204
ptc	16.8125
ptb	17.1392
wactc	1.982
wactb	9.255
ttc	1097.28
ttb	497.858
ptmix	17.0471
ttmix	602.705
mixpnd	0.488551
grsvixp	6598.04
badchan	(26)
bkgnd	132
escdate	19.Nov.96
esctime	16:27:58
DADSdate	97.08.20
DADStime	16:27:58
btchdate	19.Nov 96
btchtime	16:27:58

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Fri Aug 22 13:50:31 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	60.31	61.86	63.05	63.96	64.65	65.19	65.64	66.06	66.5	67.01	67.63	68.39
100	62.58	63.88	64.82	65.48	65.93	66.24	66.48	66.71	66.97	67.33	67.84	68.52
130	64.05	65.1	65.69	65.96	66.06	66.07	66.07	66.1	66.22	66.45	66.65	67.43
160	65.19	65.8	66.2	66.52	66.84	67.23	67.67	68.17	68.71	69.29	69.89	70.51
200	65.92	67.06	67.89	68.49	68.93	69.26	69.57	69.86	70.17	70.55	71.01	71.58
250	67.24	68.94	70.21	71.14	71.81	72.32	72.73	73.12	73.55	74.06	74.78	75.65
320	67.13	68.76	69.96	70.79	71.31	71.61	71.82	72.07	72.43	72.94	73.82	74.45
400	66.74	68.59	69.81	70.63	71.25	71.8	72.33	72.89	73.49	74.08	74.82	75.11
500	66.8	68.64	69.86	70.69	71.3	71.83	72.3	72.69	73.05	73.6	74.44	75.32
630	67.15	69.73	70.98	71.54	71.93	72.45	73.05	73.63	74.14	74.62	75.16	75.82
800	67.31	69.7	70.79	71.2	71.41	71.7	72.16	72.82	73.59	74.29	74.79	75.44
1000	66.97	69.41	70.3	70.76	71.17	71.7	72.22	72.88	73.67	74.4	75.03	75.49
1300	66.67	69.11	69.78	70.09	70.6	71.27	71.82	72.43	73.03	73.76	74.58	75.2
1600	66.35	68.55	69.31	69.52	69.72	70.19	70.82	71.55	72.27	72.77	73.13	73.58
2000	66.06	67.57	68.17	68.63	69.08	69.58	70.35	70.85	71.01	71.63	72.15	72.63
2500	66.65	67.82	68.24	68.47	68.71	69.11	69.8	70.31	70.37	70.66	71.23	71.69
3200	67.61	68.27	68.74	68.85	68.95	69.26	69.81	70.14	70.38	70.68	70.99	71.33
4000	68.71	68.28	68.4	68.79	69.13	69.46	70.01	69.92	70.09	70.48	70.78	70.78
5000	69.46	69.52	69.7	69.68	69.52	70.01	71.26	70.38	70.31	70.74	71.14	71.04
6300	70.78	71.03	71.14	71.05	70.68	71.09	72.37	71.93	71.68	71.61	71.55	71.43
8000	71.33	71.35	71.31	71.25	71.24	72.08	73.53	72.25	72.08	72.42	72.67	72.42
10000	70.18	69.83	69.24	69.24	69.8	70.78	70.79	70.04	69.99	70.37	70.59	70.22
OASPL	80.93	82	82.65	83.05	83.37	83.87	84.48	84.68	85.04	85.54	86.07	86.57

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	69.26	70.18	71.13	72.07	72.96	73.77	74.49	75.1	75.62	76.1	76.79	112.97
100	69.32	70.19	71.07	71.93	72.71	73.38	73.92	74.3	74.54	74.71	75.03	112.75
130	68.17	69.03	70	71.03	72.1	73.17	74.12	74.82	75.18	75.2	75.04	112.51
160	71.14	71.77	72.38	72.97	73.53	74.05	74.48	74.77	74.89	74.87	74.93	113.6
200	72.21	72.85	73.44	73.93	74.26	74.39	74.26	73.93	73.35	72.65	72.07	114.45
250	76.59	77.46	78.15	78.57	78.62	78.27	77.63	76.79	75.83	74.85	74.09	118.19
320	75.33	76.15	76.79	77.14	77.11	76.65	75.84	74.8	73.68	72.64	71.98	116.89
400	75.58	75.99	76.22	76.23	75.96	75.4	74.61	73.69	72.75	71.91	71.44	116.75
500	76.14	76.86	77.43	77.68	77.48	76.72	75.54	74.17	72.8	71.64	71.03	117.26
630	76.51	77.15	77.6	77.83	77.02	75.72	74.21	72.85	71.86	71.25	71.09	117.51
800	76.19	76.63	77.12	76.73	75.65	74.19	73.03	71.98	70.91	70.1	69.86	116.88
1000	75.88	76.38	76.72	76.51	75.38	73.75	72.42	71.27	70.38	69.75	69.51	116.68
1300	75.64	75.69	76.39	76.54	75.29	73.13	71.96	71.9	71.09	69.95	69.41	116.34
1600	74.36	75.17	76.07	75.89	74.17	72.41	70.89	70.01	69.53	69.22	69.85	115.41
2000	73.06	73.75	74.65	74.58	72.6	71.61	70.46	69.68	69.31	69.6	71.02	114.37
2500	72.36	72.97	73.2	73.21	72.12	71.57	70.46	69.53	69.53	70.5	72.43	113.72
3200	71.68	72.04	72.76	73.66	73.62	73.25	71.27	70.17	70.99	72.71	74.99	113.97
4000	70.84	70.78	71.87	73.61	74.45	74.08	71.94	71.38	72.42	73.87	75.75	114.01
5000	70.73	70.79	71.44	72.15	73.4	73.95	71.53	71.33	73.47	75.04	76.57	114.19
6300	71.34	71.37	71.82	72.76	74.52	75.57	72.74	72.68	74.45	75.6	77.82	115.21
8000	71.93	71.64	72.04	73.16	75.92	76.54	72.96	72.17	73.91	75.06	76.94	115.74
10000	69.89	69.82	70.51	71.15	71.38	72.15	69.28	69.2	71.55	72.38	73.13	113.31
OASPL	87.11	87.67	88.24	88.52	88.41	88.04	86.98	86.48	86.5	86.66	87.39	128.86

NASA Lewis Allison AST Jet Noise Test 1996

rdg	138
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
ngbid	JER w/ external supplement
mixbid	ADV
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	588.04
m01	0.06756
pamb	14.2352
tamb	500.162
rhumid	59.1
winds1	0
nprc	1.167
nprb	1.204
ptc	16.6125
ptb	17.1392
wactc	1.962
wactb	9.255
ttc	1097.28
ttb	497.858
ptmix	17.0471
ttmix	602.705
mixpnd	0.488551
grsvlxp	6596.04
badchan	[26]
bkgnd	132
escdate	19 Nov.96
esctime	18:27:58
DADSdate	97.08.20
DADStime	18:27:58
btchdate	19 Nov.96
btchtime	18:27:58

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 13:50:42 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	38.52	40.56	42.15	43.37	44.3	45.01	45.56	46.02	46.42	46.83	47.29	47.81
100	40.75	42.55	43.89	44.87	45.56	46.04	46.38	46.63	46.87	47.13	47.47	47.9
130	42.17	43.71	44.71	45.3	45.64	45.82	45.92	45.99	46.07	46.2	46.43	46.76
160	43.23	44.34	45.15	45.78	46.35	46.91	47.46	47.99	48.5	48.97	49.4	49.76
200	43.84	45.49	46.73	47.65	48.34	48.86	49.26	49.58	49.86	50.13	50.42	50.74
250	44.97	47.19	48.87	50.13	51.06	51.74	52.25	52.87	53.07	53.5	54.01	54.63
320	44.64	46.79	48.42	49.59	50.38	50.86	51.18	51.47	51.79	52.19	52.69	53.26
400	43.88	46.27	47.94	49.11	50	50.74	51.39	51.98	52.54	53.03	53.38	53.59
500	43.51	45.92	47.61	48.81	49.7	50.42	51	51.44	51.76	52.19	52.83	53.43
630	43.34	46.52	48.27	49.22	49.92	50.84	51.36	51.99	52.45	52.81	53.14	53.5
800	42.97	46	47.6	48.42	48.93	49.43	50.02	50.73	51.45	52.03	52.33	52.87
1000	42.06	45.17	46.61	47.48	48.21	48.96	49.61	50.31	51.06	51.67	52.07	52.21
1300	41.16	44.31	45.54	46.3	47.14	48.04	48.73	49.39	49.95	50.54	51.11	51.41
1600	40.13	43.08	44.44	45.13	45.68	46.4	47.18	47.96	48.63	48.99	49.11	49.2
2000	38.97	41.29	42.52	43.48	44.31	45.08	46	46.55	46.67	47.13	47.39	47.49
2500	38.32	40.37	41.5	42.27	42.91	43.6	44.48	45.06	45.04	45.17	45.46	45.51
3200	37.43	39.1	40.36	41.1	41.66	42.26	43.01	43.41	43.61	43.71	43.7	43.56
4000	35.75	36.52	37.58	38.69	39.53	40.2	40.99	40.96	41.07	41.25	41.17	40.65
5000	32.16	33.6	34.89	35.76	36.3	37.23	38.62	37.87	37.75	37.94	37.92	37.2
6300	26.83	28.92	30.3	31.23	31.67	32.72	34.42	34	33.61	33.21	32.6	31.67
8000	0	15.82	19.85	22.08	23.1	24.84	27.32	25.88	25.56	25.41	24.76	22.93
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	54.7	57.01	58.47	59.46	60.2	60.85	61.42	61.92	62.36	62.79	63.18	63.55
PNL	62.8	65.04	66.41	67.35	68.07	68.78	69.59	70.04	70.27	70.56	70.83	70.95

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.36	48.89	49.35	49.7	49.89	49.87	49.59	48.99	48.03	46.65	44.87	112.89
100	48.39	48.86	49.25	49.52	49.6	49.43	48.96	48.13	46.88	45.17	43	112.63
130	47.19	47.65	48.13	48.57	48.93	49.15	49.09	48.56	47.41	45.52	42.82	112.32
160	50.09	50.31	50.42	50.41	50.25	49.92	49.32	48.38	46.97	45	42.45	113.53
200	51.04	51.27	51.36	51.24	50.84	50.09	48.94	47.32	45.17	42.46	39.18	114.07
250	55.23	55.68	55.86	55.65	54.96	53.72	52	49.86	47.26	44.18	40.55	117.59
320	53.8	54.19	54.3	54.01	53.21	51.82	49.89	47.5	44.87	41.41	37.7	116.09
400	53.71	53.67	53.36	52.7	51.63	50.1	48.14	45.78	43.02	39.8	35.98	115.6
500	53.88	54.14	54.13	53.69	52.63	50.84	48.42	45.49	42.15	38.38	34.04	115.68
630	53.81	53.98	53.8	53.09	51.58	49.18	46.33	43.3	40.17	36.7	32.36	115.47
800	53.01	53.13	52.77	51.59	49.57	46.96	44.38	41.55	38.18	34.21	29.35	114.35
1000	52.18	52.14	51.8	50.76	48.82	45.78	42.94	39.86	36.46	32.41	27.14	113.62
1300	51.41	51.09	50.88	50.18	47.84	44.37	41.59	39.49	36.01	31.17	25.06	112.69
1600	49.5	49.71	49.88	48.76	45.9	42.76	39.52	38.42	33	26.63	22.88	111.1
2000	47.43	47.47	47.58	46.53	43.53	40.83	37.81	34.61	31.03	26.8	21.23	109.22
2500	45.64	45.56	44.92	43.81	41.42	39.2	35.98	32.37	28.78	24.68	17.83	107.37
3200	43.33	42.92	42.68	42.34	40.74	38.47	34.15	29.89	26.39	22.21	0.19	105.72
4000	39.82	39.06	39.03	39.37	38.42	35.8	30.85	26.59	22.21	5.99	0	102.99
5000	36.02	34.99	34.29	33.33	32.52	30.35	23.87	14.77	0	0	0	99.35
6300	30.53	29.25	28.09	26.57	25.06	21.61	0	0	0	0	0	94.38
8000	20.45	16.75	9.45	0	0	0	0	0	0	0	0	85.53
10000	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	63.86	64.05	64.03	63.56	62.58	61.23	59.7	57.99	56.01	53.68	50.91	126.15
PNL	71.02	71	70.95	70.18	68.52	66.56	63.85	61.18	57.98	53.93	48.52	70.04

NASA Lewis Allison AST Jet Noise Test 1996

rdg 139
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vrd 842.21
m01 0.06638
pamb 14.2367
tamb 499.955
rhumid 60.65
winds1 0
nprc 1.39
nprb 1.446
ptc 19.789
ptb 20.5863
wactc 2.898
wactb 13.708
ttc 1165.42
ttb 497.83
ptmix 20.4471
ttmix 614.335
mixpnd 0.693065
grsvixp 13985.7
badchan (26)
bkgnd 132
escdate 19.Nov.96
esctime 16:37:02
DADSdate 19.Nov.96
DADStime 16:37:02
blchdate 19.Nov.96
blchtime 16:37:02
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 10:58:59 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.45	72.59	73.51	74.27	74.91	75.48	75.99	76.48	76.98	77.5	78.08	78.73	79.47	80.33	81.32	82.49	83.83	85.35	86.9	88.34	89.54	90.49	91.35	124.98
100	74.17	75.18	75.89	76.39	76.77	77.1	77.39	77.67	77.93	78.17	78.4	78.66	79.16	80.1	81.56	83.28	84.92	86.23	87.18	87.71	87.93	87.92	87.93	124.73
130	75.17	75.97	75.82	75.65	75.65	75.79	76.07	76.49	77.02	77.62	78.26	78.92	79.66	80.44	81.21	82.14	83.36	84.93	86.51	87.65	87.98	87.8	87.34	124.22
160	76.28	76.77	76.65	76.87	77.1	77.58	78.13	78.5	78.7	79.18	80.4	81.86	81.77	81.63	82.51	83.46	85.02	86.4	87.24	87.58	87.46	87.34	87.64	125.18
200	76.93	77.75	77.88	77.87	78.11	78.74	79.4	79.62	79.85	80.69	81.57	82	82.32	83.03	83.95	84.15	85.45	86.35	86.77	86.76	86.1	85.14	84.8	125.38
250	77.62	78.79	79.21	79.63	79.97	79.52	79.64	80.21	80.55	80.89	81.9	82.65	83.31	84.2	85.38	86.05	86.29	86.42	86.78	86.68	86.06	85.45	85.11	126.05
320	78.12	78.9	79.46	79.91	80.29	80.52	80.48	80.55	80.91	81.51	82.35	83.04	83.74	84.71	85.18	85.18	86.02	87.03	86.8	85.87	84.71	83.71	82.94	126.03
400	77.43	79.09	79.49	80.23	80.34	80.74	81.34	82.07	82.58	82.79	83.57	84.5	84.64	84.97	85.7	85.67	85.84	85.46	84.88	84.38	83.6	82.57	81.95	126.21
500	78.06	79.5	79.95	80.02	80.31	81	81.39	81.88	82.8	83.41	84.07	84.45	84.83	85.48	86.21	86.5	86.35	85.99	85.48	84.29	83.41	82.56	81.4	126.54
630	77.57	79.72	80.49	80.8	80.87	81.24	81.72	82.37	83.1	83.68	84.13	84.81	85.84	86.47	87.05	86.4	86.13	85.52	84.75	84.07	83.25	82.25	81.54	126.82
800	78.22	80.68	81.49	81.75	81.74	82	82.79	83.6	84.05	84.5	85.34	85.98	86.48	87.12	87.58	86.55	85.71	85.33	84.84	84.05	82.98	81.83	81.01	127.41
1000	78.99	81.41	82.27	82.47	82.57	82.88	83.33	83.73	84.18	84.72	85.18	85.9	86.8	87.78	87.67	86.15	85.15	85.01	84.53	83.79	82.96	81.81	80.74	127.57
1300	79.36	82.24	82.84	83.04	83.19	83.32	83.5	83.83	84.19	84.61	85.14	85.79	86.87	88.51	88.63	86.86	85.03	84.69	84.46	83.83	82.66	81.61	81.29	127.87
1600	79.19	82.31	82.3	82.35	82.47	82.47	82.49	82.8	83.39	84.09	84.88	85.62	86.67	88.34	88.58	85.71	84.4	84.01	83.58	82.95	81.99	80.88	80.11	127.38
2000	78.43	81.01	81.32	81.56	81.64	81.71	81.88	82.28	82.85	83.38	84.15	84.97	86.02	87.52	87.65	84.89	83.45	83.15	82.55	81.72	80.84	80.15	79.87	126.58
2500	77.62	79.9	79.87	80.29	80.63	81.01	81.31	81.81	82.34	82.72	83.43	84.16	85.52	86.64	86.4	84.34	82.87	82.54	81.79	81.1	80.21	79.36	79.37	125.79
3200	77.06	78.9	79.32	79.68	79.77	80.19	80.95	81.38	81.53	82.02	82.8	83.33	84.1	84.91	84.97	83.43	82.3	82.13	80.83	79.8	79.23	78.92	79.52	124.82
4000	76.71	77.83	78.27	78.61	78.89	79.56	80.27	80.41	80.73	81.4	82.05	82.56	82.87	83.11	83.35	82.15	81.36	81.29	79.83	78.87	78.52	78.36	79.77	123.8
5000	76.47	77.71	77.8	77.63	77.63	78.53	79.68	79.81	79.83	80.31	80.97	81.22	81.49	81.74	81.73	80.65	80.17	80.17	78.31	77.81	78.19	78.57	80.05	122.72
6300	76.44	77.53	77.81	77.65	77.31	77.9	79.49	79.89	79.78	79.92	80.14	80.23	80.35	80.44	80.12	79.04	78.75	79.38	77.96	77.53	78.14	78.84	80.63	122.07
8000	76.56	77.3	77.63	77.67	77.28	77.85	79.85	79.87	79.45	79.56	79.76	79.81	79.7	79.47	78.81	78.3	78.97	80.27	77.92	77.02	77.72	78.44	80.32	121.78
10000	74.81	75.12	75.06	75.35	75.86	76.24	77.28	77.15	77.01	76.87	76.87	76.38	76.4	76.52	76.39	75.93	75.51	75.52	73.77	73.49	74.71	75.41	76.33	119.02
OASPL	90.88	92.49	92.89	93.13	93.28	93.59	94.1	94.5	94.9	95.38	96.04	96.89	97.39	98.31	98.65	97.79	97.63	97.93	97.93	97.86	97.64	97.39	97.46	139

NASA Lewis Allison AST Jet Noise Test 1996

rdg 139
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbid NATR full wedge
rigbid JER w/ external supplement
mixbid ADV
nozbid BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 842.21
m01 0.06638
pamb 14.2367
tamb 499.955
rhumid 60.65
winds1 0
nprc 1.39
nprb 1.446
ptc 19.769
ptb 20.5863
wactc 2.896
wactb 13.706
ttc 1165.42
ttb 497.83
ptmix 20.4471
ttmix 614.335
mixpnd 0.693065
grsvixp 13985.7
badchan (26)
bkgnd 132
escdate 19.Nov.96
esctime 16:37:02
DADSdate 97.08.19
DADStime 16:37:02
btchdate 19.Nov.96
btchtime 16:37:02
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:59:06 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.67	51.29	52.61	53.69	54.57	55.3	55.91	56.44	56.9	57.33	57.73	58.14	58.57	59.03	59.54	60.11	60.76	61.44	62	62.23	61.96	61.04	59.43	124.89
100	52.35	53.65	54.95	55.77	56.39	56.89	57.29	57.6	57.82	57.97	58.02	58.04	58.23	58.77	59.74	60.87	61.8	62.28	62.2	61.54	60.27	58.38	55.9	124.6
130	53.29	54.59	54.84	54.98	55.23	55.54	55.82	56.38	56.87	57.38	57.84	58.25	58.68	59.05	59.34	59.67	60.18	60.91	61.48	61.39	60.22	58.12	55.12	124.02
160	54.32	55.31	55.8	56.14	56.61	57.27	57.91	58.32	58.48	58.86	59.91	61.12	60.71	60.17	60.56	60.91	61.75	62.28	62.09	61.2	59.54	57.48	55.18	124.89
200	54.65	56.17	56.72	57.03	57.52	58.33	59.08	59.34	59.54	60.28	60.98	61.16	61.16	61.46	61.87	61.46	62.03	62.08	61.44	60.16	57.82	54.96	51.7	124.94
250	55.36	57.04	57.88	58.62	59.22	58.95	59.17	59.78	60.09	60.32	61.15	61.64	61.97	62.44	63.09	63.16	62.66	61.89	61.16	59.78	57.52	54.81	51.61	125.43
320	55.61	56.93	57.92	58.71	59.35	59.77	59.83	59.94	60.27	60.75	61.41	61.85	62.21	62.75	62.69	62.05	62.11	62.19	60.64	58.35	55.68	52.44	48.59	125.17
400	54.58	56.78	57.62	58.71	59.09	59.68	60.4	61.16	61.61	61.73	62.31	62.96	62.76	62.65	62.83	62.14	61.51	60.15	58.38	56.44	53.63	50.45	46.51	125.02
500	54.78	56.78	57.7	58.14	58.71	59.58	60.09	60.61	61.31	61.99	62.45	62.56	62.58	62.77	62.92	62.51	61.51	60.13	58.37	55.64	52.81	49.37	44.5	124.91
630	53.76	56.52	57.78	58.48	58.85	59.42	60.02	60.71	61.4	61.64	62.11	62.5	63.13	63.27	63.25	61.88	60.7	58.99	56.88	54.53	51.57	47.69	42.63	124.72
800	53.86	56.96	58.28	58.96	59.26	59.73	60.65	61.5	61.9	62.22	62.85	63.18	63.28	63.39	63.21	61.4	59.62	58.09	56.18	53.62	50.24	45.95	40.54	124.82
1000	54.08	57.15	58.55	59.19	59.61	60.15	60.74	61.16	61.58	61.99	62.23	62.62	63.1	63.53	62.76	60.42	58.4	57.03	55.04	52.39	49.05	44.49	38.37	124.48
1300	53.85	57.42	58.59	59.23	59.71	60.08	60.4	60.76	61.1	61.37	61.67	61.98	62.62	63.68	63.1	60.46	57.57	55.95	54.1	51.4	47.54	42.77	36.85	124.2
1600	52.97	56.84	57.42	57.96	58.44	58.88	58.85	59.21	59.74	60.29	60.82	61.22	61.81	62.67	62.37	58.8	56.15	54.37	52.21	49.37	45.49	40.33	33.39	123.08
2000	51.37	54.78	55.69	56.41	56.87	57.21	57.53	57.97	58.5	58.86	59.38	59.82	60.36	61.23	60.57	56.84	54.19	52.37	49.9	46.66	42.58	37.42	30.27	121.49
2500	49.32	52.48	53.15	54.1	54.87	55.53	55.97	56.53	57.03	57.24	57.65	57.97	58.8	59.24	58.12	54.97	52.18	50.18	47.37	44.03	39.58	33.86	25.74	119.59
3200	46.94	49.79	50.98	51.95	52.5	53.23	54.16	54.65	54.75	55.04	55.31	55.61	55.75	55.8	54.91	52.12	49.49	47.42	43.79	39.69	34.94	28.71	19.04	116.96
4000	43.84	46.11	47.47	48.54	49.33	50.38	51.27	51.47	51.73	52.2	52.49	52.47	52.08	51.45	50.58	47.83	45.34	43	38.68	34.2	28.71	20.48	0	113.52
5000	39.35	41.94	43.13	43.82	44.47	45.84	47.2	47.4	47.35	47.58	47.83	47.46	46.91	46.11	44.78	42.01	39.38	36.69	31.24	26.03	18.63	0	0	108.68
6300	32.57	35.46	37.08	37.97	38.52	39.71	41.52	42.03	41.88	41.71	41.39	40.67	39.74	38.49	36.44	33.2	29.91	26.61	18.59	0	0	0	0	102.24
8000	21.41	25.35	27.91	29.49	30.04	31.28	33.79	33.77	33.46	33.2	32.69	31.7	30.13	27.99	24.65	20.16	14.14	2.91	0	0	0	0	0	93.38
10000	0	0	0	0	0	7.54	16.61	16.27	15.32	13.21	8.48	-2.16	0	0	0	0	0	0	0	0	0	0	0	73.05
OASPL	65.83	68.13	69.08	69.75	70.25	70.73	71.23	71.73	72.15	72.54	73.05	73.45	73.72	74.11	74.02	72.97	72.42	72	71.25	70.11	68.47	66.38	63.81	136.47
PNL	73.97	76.9	77.87	78.62	79.14	79.76	80.34	80.84	81.24	81.56	81.99	82.3	82.72	83.05	82.58	80.2	78.37	77.09	75.31	72.98	70.11	66.47	62	81.22

NASA Lewis Allison AST Jet Noise Test 1996

rdg	140
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	947.57
m01	0.06673
pamb	14.2315
tamb	499.592
rhumid	62.01
winds1	0
nprc	1.537
nprb	1.609
ptc	21.8738
ptb	22.8985
wactc	3.085
wactb	15.875
ttc	1309.9
ttb	499.771
ptmix	22.7326
ttmix	630.898
mixpnd	0.769464
grsvixp	18060.7
badchan	(26)
bkgnd	132
escdate	19.Nov.96
esctime	16:49:42
DADSdate	97.08.19
DADStime	16:49:42
btchdate	19.Nov.96
btchtime	16:49:42

**Scenario: 150 foot arc, 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:06:19 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100
roll angle (	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100
80	76.13	77.18	77.93	78.46	78.83	79.1	79.33	79.56	79.85	80.24
100	77.81	79.25	80.31	81.06	81.58	81.93	82.17	82.37	82.57	82.81
130	78.51	79.88	80.64	80.94	80.93	80.74	80.52	80.36	80.39	80.7
160	81.27	81.54	81.42	81.26	81.28	81.63	82.23	82.96	83.72	84.36
200	81.36	82.21	82.52	82.61	82.75	83.06	83.48	83.87	84.18	84.54
250	81.73	82.8	83.21	83.21	83.02	83.02	83.55	84.36	85.22	86.04
320	81.99	83.06	83.72	84.11	84.43	84.83	85.18	85.18	85.12	85.39
400	81.71	82.92	83.74	84.34	84.65	85.24	85.55	86.24	86.72	87.54
500	82.45	83.8	84.48	84.83	85.15	85.62	86.18	86.73	87.04	87.38
630	82.61	84.36	85.3	85.77	86.04	86.35	86.76	87.18	87.58	87.98
800	83.24	85.25	86.02	86.18	86.24	86.54	87.04	87.55	88.03	88.57
1000	84.87	87.25	87.68	87.44	87.25	87.44	87.72	87.94	88.16	88.59
1300	85.21	88.09	88.44	87.79	87.84	87.72	87.86	88.29	88.74	89.25
1600	85.28	88.14	88.01	87.16	86.63	87.17	87.91	88.61	88.88	89.11
2000	84.69	86.78	86.06	86.7	86.78	87.11	87.57	87.96	88.24	88.63
2500	82.9	85.31	85.86	86.23	86.48	86.68	87.03	87.45	87.72	88.01
3200	82.06	84.11	84.88	85.39	85.54	85.78	86.51	87.07	87.8	87.94
4000	81.15	83	83.79	84.22	84.43	84.9	85.74	86.18	86.64	87.04
5000	80.42	82.28	82.74	82.81	82.7	83.55	84.45	84.98	85.33	85.82
6300	79.85	81.5	82.15	82.18	81.87	82.44	83.53	84.42	84.88	84.94
8000	79.51	81.1	81.64	81.64	81.22	81.82	82.99	83.81	84.1	84.26
10000	77.54	78.52	78.68	79.2	79.28	79.82	80.06	80.34	80.78	81.05
OASPL	95.52	97.48	97.93	97.95	98.02	98.31	98.8	99.27	99.65	100.06

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.77	81.48	82.39	83.53	84.91	86.55	88.46	90.6	92.77	94.71	96.24	97.27	97.95	130.52
100	83.13	83.57	84.19	85.02	86.11	87.46	89.1	91.01	92.92	94.56	95.71	96.25	96.29	130.68
130	81.39	82.49	83.92	85.54	87.26	88.96	90.55	91.96	93.1	93.93	94.44	94.68	94.9	130.33
160	84.74	84.89	85.17	85.88	87.15	88.75	90.39	91.8	92.84	93.81	94.39	94.72	94.99	130.85
200	85.04	85.71	86.55	87.5	88.5	89.52	90.51	91.41	92.03	92.23	91.95	91.44	91.09	130.23
250	86.81	87.55	88.45	89.49	90.5	91.18	91.77	92.43	92.54	92.25	91.97	91.74	91.58	131.25
320	85.96	86.74	87.86	86.67	89.7	90.6	91.19	91.36	91.12	90.53	89.64	88.64	87.88	130.49
400	88.27	88.61	89.11	90.14	91.13	91.49	91.63	91.68	90.98	89.72	88.43	87.39	86.86	131.24
500	87.95	88.82	89.49	90.34	90.92	91.28	91.32	90.99	90.44	89.5	88.39	87.48	87.01	131.21
630	88.41	89.21	90.24	90.91	91.11	91.07	90.87	90.51	90.03	89.41	88.61	87.7	86.96	131.49
800	89.14	89.85	90.73	91.33	91.83	90.84	90.65	90.51	89.99	89.15	88	86.88	86.16	131.78
1000	89.29	90.54	91.74	92.64	92.67	90.74	90.61	90.66	90.09	89.12	87.94	86.75	85.91	132.38
1300	90.11	91.46	92.6	93.15	92.92	90.58	90.07	89.99	89.78	89.24	88.34	87.25	86.39	132.77
1600	89.96	91.18	92.3	92.95	92.76	90.8	89.99	89.96	89.58	88.79	87.74	86.69	85.89	132.57
2000	89.52	90.98	92.27	92.84	92.32	90.11	89.09	89.17	88.73	87.63	86.58	85.87	85.46	132.1
2500	89.09	90.52	91.65	91.97	91.27	89.06	88.42	88.82	88.13	86.65	85.7	85.23	84.88	131.41
3200	88.58	89.72	90.78	90.89	90.28	88.8	87.99	87.92	87.05	85.71	84.89	84.44	84.15	130.68
4000	87.73	88.52	89.44	89.07	88.64	87.69	87.26	87.24	85.76	84.26	83.7	83.37	83.39	129.53
5000	86.55	87.02	87.8	87.58	87.21	85.81	85.7	86.11	84.58	82.86	82.45	82.45	82.84	128.14
6300	85.09	85.44	86.23	86.35	85.41	84.37	84.33	85.22	83.44	81.71	81.35	81.39	82.4	127.02
8000	84.37	84.57	84.82	84.82	83.53	82.63	83.62	85.01	82.75	80.68	80.26	80.32	81.6	126.1
10000	81.2	80.7	80.86	80.98	80.45	80.2	80.3	81.06	79.12	77.45	77.55	77.92	78.75	122.96
OASPL	100.73	101.86	102.64	103.22	103.34	102.73	102.94	103.43	103.59	103.67	103.8	103.88	103.96	144.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	140
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	947.57
m01	0.06673
pamb	14.2315
tamb	499.592
rhumid	62.01
windel	0
nprc	1.537
nprb	1.609
ptc	21.8736
ptb	22.8985
wacic	3.085
wacib	15.975
ttc	1309.9
ttb	499.771
ptmix	22.7326
ttmix	630.896
mixgnd	0.769464
gravixp	18060.7
badchan	(26)
bkgnd	132
eacdate	19.Nov.96
eactime	16:49:42
DADSdate	97.08.19
DADStime	16:49:42
btchdate	19.Nov.96
btchtime	16:49:42

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:06:25 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.34	55.88	57.03	57.88	58.49	58.93	59.26	59.52	59.78	60.07	60.43	60.9
100	55.99	57.92	58.37	60.44	61.2	61.72	62.07	62.3	62.46	62.6	62.75	62.95
130	56.64	58.5	59.65	60.27	60.51	60.49	60.37	60.24	60.24	60.45	60.97	61.63
160	59.31	60.08	60.37	60.52	60.8	61.32	62.01	62.78	63.51	64.04	64.25	64.16
200	59.27	60.63	61.36	61.78	62.16	62.64	63.17	63.59	63.86	64.12	64.45	64.88
250	59.47	61.05	61.87	62.2	62.28	62.45	63.09	63.95	64.76	65.48	66.08	66.55
320	59.48	61.1	62.17	62.9	63.49	64.07	64.51	64.58	64.47	64.63	65.01	65.53
400	58.85	60.61	61.87	62.82	63.6	64.18	64.6	65.32	65.77	66.48	67.02	67.1
500	59.16	61.09	62.23	62.94	63.54	64.2	64.86	65.46	65.73	65.98	66.34	66.73
630	58.8	61.17	62.6	63.45	64.02	64.53	65.08	65.52	65.89	66.18	66.38	66.89
800	58.88	61.52	62.81	63.38	63.75	64.26	64.89	65.45	65.89	66.3	66.66	67.07
1000	59.74	62.99	63.97	64.16	64.3	64.72	65.13	65.39	65.55	65.85	66.32	67.24
1300	59.87	63.24	64.18	64	64.38	64.49	64.76	65.24	65.64	66	66.84	67.64
1600	59.07	62.68	63.15	62.77	62.8	63.38	64.26	65.01	65.24	65.32	65.93	66.78
2000	57.64	60.52	61.21	61.54	62.01	62.6	63.21	63.66	63.88	64.12	64.74	65.83
2500	54.61	57.88	59.11	60.03	60.71	61.19	61.71	62.18	62.39	62.52	63.31	64.34
3200	51.99	55.01	56.55	57.67	58.27	58.82	59.74	60.34	60.81	60.98	61.32	62.01
4000	48.33	51.28	52.99	54.16	54.88	55.89	56.76	57.28	57.66	57.83	58.13	58.39
5000	43.33	46.55	48.13	49.09	49.83	50.92	52.08	52.87	52.91	53.13	53.47	53.33
6300	36.19	39.58	41.51	42.57	43.1	44.28	45.7	46.66	47.05	46.81	46.39	45.98
8000	25.09	29.59	32.13	33.54	34.08	35.37	37.03	37.86	38.19	37.87	37.28	36.52
10000	0	0	0.4	12.26	17.03	19.58	21.08	21.77	22.14	21.68	20.89	17.79
OASPL	70.62	72.97	73.96	74.42	74.85	75.32	75.85	76.33	76.66	76.99	77.44	78.01
PNL	79.43	82.23	83.17	83.84	84.38	84.92	85.54	86.05	86.35	86.57	87.12	87.84

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.49	62.23	63.13	64.18	65.39	66.7	67.88	68.6	68.65	67.82	66.04	130.42
100	63.25	63.69	64.28	65.05	65.99	67.05	67.96	68.39	68.05	66.71	64.26	130.53
130	62.94	64.16	65.39	66.49	67.38	67.93	68.06	67.67	66.67	65.01	62.68	130.11
160	64.11	64.42	65.2	66.2	67.12	67.68	67.79	67.42	66.47	64.86	62.52	130.33
200	65.38	65.93	66.43	66.64	67.1	67.12	66.7	65.62	63.77	61.24	58.17	129.79
250	67.12	67.74	66.23	66.29	66.14	67.91	66.94	65.35	63.45	61.12	58.09	130.6
320	66.11	66.7	67.21	67.47	67.29	66.53	65.17	63.2	60.59	57.37	53.56	129.61
400	67.24	67.83	68.27	67.97	67.31	66.4	64.53	61.81	58.71	55.27	51.39	130.03
500	67.24	67.63	67.64	67.3	66.5	65.14	63.34	60.65	57.78	54.27	50.08	129.57
630	67.55	67.73	67.32	66.54	65.44	63.99	62.17	59.88	56.93	53.15	48.26	129.36
800	67.55	67.63	67.28	65.72	64.58	63.27	61.33	58.69	55.23	50.94	45.62	129.13
1000	68.02	68.39	67.76	65	63.86	62.69	60.6	57.72	54.05	49.45	43.55	129.23
1300	68.35	68.33	67.37	64.2	62.62	61.24	59.38	56.8	53.2	48.41	41.99	129.06
1600	67.43	67.49	66.56	63.46	61.73	60.31	58.21	55.2	51.24	46.13	39.18	128.24
2000	66.61	66.55	65.23	62.04	59.79	58.38	56.08	52.56	48.31	43.11	35.83	126.99
2500	64.96	64.58	62.97	59.72	57.74	56.47	53.71	49.58	45.05	39.51	31.34	125.21
3200	62.45	61.8	60.23	57.5	55.19	53.28	50.05	45.81	40.56	34.18	24.67	122.88
4000	58.66	57.41	55.81	53.45	51.24	48.98	44.75	39.6	34	26.45	4.67	119.27
5000	53.06	51.91	50.2	47.11	44.86	42.55	37.54	31.22	24.01	-0.03	0	114.15
6300	45.69	44.49	41.86	38.58	35.64	32.61	26.4	16.01	0	0	0	107.25
8000	35.42	33.38	29.84	25.84	22.53	18.01	0	0	0	0	0	97.81
10000	14.52	3.2	0	0	0	0	0	0	0	0	0	80.46
OASPL	78.57	78.83	78.69	77.98	77.71	77.45	76.91	76.11	74.97	73.28	70.88	141.58
PNL	88.37	88.23	87.39	85.33	83.96	82.92	81.16	78.94	76.29	73.14	69.19	86.6

NASA Lewis Allison AST Jet Noise Test 1996

rdg	141
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1004.05
m01	0.06819
pamb	14.2312
tamb	499.706
rhumid	62.16
winds1	0
nprc	1.737
nprb	1.622
ptc	24.7196
ptb	25.9292
wactc	3.488
wactb	18.61
ttc	1395.95
ttb	501.059
ptmix	25.7363
ttmix	642.311
mixpnd	0.808051
grsvixp	22187.5
badchan	(26)
bkgnd	132
escdate	19.Nov.96
esctime	16:56:30
DADSdate	97.08.19
DADStime	16:56:30
btchdate	19.Nov.96
btchtime	16:56:30

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 15:43:03 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	80.39	81.69	82.42	82.75	82.8	82.71	82.57	82.51	82.61	82.98	83.68	84.74
100	82.27	83.2	83.98	84.36	84.7	84.95	85.15	85.36	85.62	85.97	86.45	87.09
130	84.15	84.21	84.4	84.6	84.73	84.74	84.72	84.73	84.87	85.2	85.79	86.68
160	84.98	85.66	85.88	85.94	86.04	86.28	86.66	87.12	87.61	88.12	88.68	89.27
200	85.11	85.59	85.86	86.17	86.72	87.57	88.5	89.09	89.16	89.03	89.01	89.26
250	85.77	86.51	86.82	86.94	87.05	87.28	87.6	88.05	88.6	89.23	89.91	90.83
320	86.07	86.73	87.33	88.11	88.19	88.17	88.28	88.43	88.64	88.98	89.46	90.16
400	85.81	86.74	87.29	87.69	88.08	88.47	88.87	89.99	90.72	90.87	91.47	92.19
500	86.27	87.23	87.73	87.99	88.16	88.28	88.51	89.01	89.32	90.13	91.13	91.88
630	86.72	88.24	88.91	89.11	89.28	89.55	89.68	89.81	90.35	91.07	91.65	92.82
800	87.66	88.96	89.61	89.86	90	90.16	90.31	90.71	91.28	91.82	92.78	93.36
1000	89.43	90.6	90.88	90.74	90.64	90.81	91.09	91.46	92.03	92.92	94.05	94.9
1300	89.65	91.19	91.41	91.43	91.43	91.38	91.51	92.14	92.94	93.84	94.71	95.66
1600	90.4	91.95	92.07	91.89	91.69	92.07	93.12	93.56	93.4	94.13	95.37	96.19
2000	90.7	92.36	92.18	91.98	91.91	92.23	93.38	94.15	93.61	93.86	95.14	96.32
2500	90.23	91.63	91.38	91.29	91.45	91.67	91.51	92.14	92.53	93.1	94.92	96.08
3200	89.78	91.45	91.42	91.45	91.67	91.78	91.62	91.94	92.37	93.15	94.48	95.7
4000	89.12	90.84	90.82	91.03	91.39	91.68	91.72	92.1	92.48	92.97	94.01	95.1
5000	88.4	90.7	90.41	90.1	90.12	90.62	91	91.53	91.79	92.25	93.35	94.02
6300	87.1	89.54	89.42	89.16	89.18	89.61	90.33	91.01	91.48	91.85	92.44	93.32
8000	86.25	88.43	88.44	88.1	88.24	89.26	90.2	90.6	90.89	91.32	92.27	92.93
10000	83.85	85.31	85.22	85.48	86.31	87.32	87.5	87.78	88.1	88.29	89.43	89.34
OASPL	101	102.48	102.58	102.61	102.72	103.03	103.41	103.81	104.2	104.74	105.76	106.65

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	86.13	87.75	89.5	91.31	93.11	94.82	96.39	97.75	98.91	99.9	100.96	133.87
100	87.94	89.02	90.35	91.97	93.89	96.07	98.25	100.12	101.43	102.08	102.18	135.76
130	87.84	89.25	90.85	92.59	94.42	96.29	98.08	99.65	100.9	101.8	102.55	135.63
160	90.08	91.15	92.47	93.93	95.43	96.86	98.08	98.92	99.37	99.6	100.01	135.55
200	89.85	90.79	92.05	93.51	94.99	96.32	97.33	97.85	97.61	97.39	96.93	134.94
250	91.97	92.64	93.75	95.06	96.24	97.01	97.35	97.4	97.28	97.06	97.07	135.44
320	91.06	92.18	93.24	93.96	94.96	95.66	95.9	95.5	94.81	94.17	93.65	134.43
400	92.99	94.04	95.01	95.88	95.98	95.89	95.42	94.62	93.82	93.14	92.69	135.27
500	92.58	93.95	94.34	95.04	95.53	95.21	94.51	93.69	92.82	92.01	91.43	134.71
630	93.84	94.61	94.85	96.05	95.32	94.76	94	93.32	92.64	91.92	91.26	135.16
800	94.12	95.08	95.09	94.88	94.65	94.58	94.22	93.7	93.14	92.43	91.6	135.5
1000	95.44	96.57	95.56	94.66	94.31	94.18	93.78	93.2	92.72	92.1	91.25	136.18
1300	96.78	97.68	95.78	94.55	94.11	93.93	93.56	93.01	92.51	91.97	91.28	136.73
1600	97.33	98.2	95.91	94.64	94.64	94.43	94.07	93.96	94.74	95.02	93.92	137.4
2000	97.22	97.85	95.8	94.47	94.22	94.11	93.59	92.99	92.7	92.48	92.29	137.24
2500	97.08	97.47	95.23	93.88	93.29	93.04	92.16	91.25	90.73	90.21	89.73	136.5
3200	96.78	97.04	95.04	93.63	92.72	92.15	91.14	90.32	90.07	89.72	89.11	136.22
4000	95.88	95.74	94.13	92.96	92.1	91.24	89.83	88.94	88.64	88.55	88.2	135.61
5000	94.94	94.97	93.4	91.46	90.56	89.79	88.13	87.38	87.42	86.96	86.75	134.71
6300	94.4	94.18	92.45	90.43	89.38	88.57	86.79	86.07	85.77	85.46	86.26	133.93
8000	93.42	93.15	91.81	89.78	89.01	88.18	85.57	85.02	85.08	84.52	85.36	133.28
10000	89.97	90.19	89.94	88.19	86.45	85.2	82.33	81.52	82.11	81.93	82.4	130.49
OASPL	107.56	108.18	107.32	107.06	107.39	107.81	108.14	108.53	108.93	109.16	109.35	148.84

NASA Lewis Allison AST Jet Noise Test 1996

rdg	141
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1004.05
m01	0.06919
pamb	14.2312
tamb	499.708
rhumid	62.16
winds1	0
nprc	1.737
nprb	1.822
ptc	24.7196
ptb	25.9292
wactc	3.488
wactb	18.61
ttc	1395.95
ttb	501.059
ptmix	25.7383
ttmix	642.311
mixpnd	0.808051
grsvixp	22187.5
badchan	[26]
bkgnd	132
escdate	19.Nov.96
esctime	16:58:30
DADSdate	97.08.19
DADStime	16:58:30
btchdate	19.Nov.96
btchtime	16:58:30

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 15:43:08 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	58.61	60.39	61.52	62.17	62.46	62.53	62.5	62.46	62.53	62.79	63.32	64.15
100	60.44	61.87	62.95	63.75	64.33	64.74	65.04	65.28	65.51	65.76	66.07	66.48
130	62.27	62.82	63.42	63.94	64.31	64.5	64.57	64.62	64.72	64.95	65.37	66.01
160	63.03	64.2	64.82	65.2	65.55	65.96	66.45	66.95	67.4	67.81	68.17	68.53
200	63.03	64.01	64.69	65.34	66.13	67.16	68.19	68.81	68.84	68.62	68.42	68.43
250	63.51	64.76	65.49	65.94	66.3	66.7	67.14	67.62	68.14	68.66	69.16	69.83
320	63.57	64.75	65.78	66.91	67.22	67.41	67.62	67.82	67.99	68.2	68.51	68.96
400	62.95	64.44	65.43	66.18	66.84	67.41	67.93	69.07	69.77	69.62	70.24	70.69
500	62.96	64.51	65.47	66.1	66.55	66.87	67.21	67.74	68.03	68.71	69.52	69.99
630	62.9	65.03	66.2	66.79	67.25	67.72	67.98	68.25	68.65	69.26	69.82	70.51
800	63.29	65.25	66.4	67.05	67.5	67.88	68.16	68.61	69.1	69.55	70.27	70.57
1000	64.51	66.55	67.18	67.47	67.66	68.07	68.48	68.89	69.42	70.18	71.06	71.61
1300	64.13	66.37	67.16	67.63	67.97	68.15	68.41	69.09	69.84	70.58	71.22	71.84
1600	64.15	66.46	67.18	67.47	67.62	68.24	69.42	69.91	69.73	70.31	71.3	71.77
2000	63.64	66.11	66.55	66.85	67.15	67.74	69.09	69.93	69.29	69.37	70.38	71.17
2500	61.95	64.2	64.63	65.08	65.66	66.17	66.16	66.87	67.21	67.59	69.15	69.99
3200	59.68	62.32	63.06	63.71	64.38	64.79	64.83	65.2	65.57	66.18	67.2	67.98
4000	56.24	59.11	60	60.9	61.8	62.43	62.71	63.15	63.48	63.74	64.39	64.96
5000	51.34	54.98	55.78	56.36	57.02	57.96	58.55	59.13	59.33	59.54	60.24	60.28
6300	43.48	47.83	48.84	49.68	50.52	51.66	52.46	53.25	53.61	53.67	53.69	53.72
8000	32.52	37.05	38.97	40.13	41.25	42.84	44.14	44.76	44.91	44.91	45.13	44.78
10000	0	18.01	21.49	24.03	26.32	28.54	29.68	30.19	30.29	29.86	30.03	28.61
OASPL	75.25	77.05	77.85	78.41	78.83	79.27	79.77	80.3	80.57	80.98	81.65	82.18
PNL	85.23	87.44	88.14	88.68	89.22	89.75	90.4	91.04	91	91.35	92.37	92.96

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	65.23	66.45	67.72	68.94	70.04	70.92	71.48	71.65	71.32	70.45	69.04	133.76
100	67.01	67.66	68.53	69.56	70.77	72.12	73.3	73.95	73.77	72.54	70.14	135.6
130	66.86	67.87	68.97	70.12	71.24	72.26	73.04	73.39	73.13	72.13	70.33	135.36
160	69.02	69.69	70.51	71.37	72.16	72.73	72.92	72.53	71.45	69.73	67.53	135.23
200	68.69	69.22	69.96	70.82	71.57	72.03	71.99	71.24	69.63	67.18	64.01	134.47
250	70.64	70.89	71.49	72.18	72.61	72.48	71.75	70.49	68.73	66.44	63.59	134.75
320	69.52	70.2	70.74	70.81	71.05	70.84	69.96	68.19	65.77	62.9	59.31	133.51
400	71.12	71.72	72.15	72.35	71.65	70.59	68.94	66.7	64.07	61	57.19	134.01
500	70.32	71.25	71.06	71.05	70.7	69.38	67.43	65.06	62.23	58.81	54.51	133.01
630	71.14	71.42	71.15	70.53	69.88	68.25	66.15	63.79	60.97	57.39	52.58	132.99
800	70.92	71.38	70.74	69.54	68.56	67.33	65.55	63.25	60.38	56.53	51.1	132.78
1000	71.73	72.31	70.64	68.92	67.56	66.2	64.26	61.79	58.82	54.8	48.9	133.01
1300	72.52	72.87	70.27	68.15	66.65	65.16	63.17	60.56	57.37	53.09	46.8	133.04
1600	72.45	72.74	69.66	67.68	66.34	64.78	62.66	60.3	58.05	54.17	46.91	132.96
2000	71.58	71.63	68.72	66.41	64.95	63.35	60.96	57.97	54.53	49.89	42.91	132.16
2500	70.34	70.01	68.93	64.5	62.6	60.72	57.78	54.2	50.11	44.52	38.15	130.34
3200	68.44	67.92	64.96	62.32	59.9	57.46	54.09	50.19	45.81	39.59	29.65	128.49
4000	65.06	64.05	61.29	58.7	56.12	53.09	48.91	44.32	39.17	31.74	18.91	125.5
5000	60.32	59.17	56.37	52.74	49.73	46.19	41.05	35.77	29.58	18.19	0	120.94
6300	53.79	52.21	48.71	44.5	40.65	36.33	30.04	22.54	2.67	0	0	114.42
8000	43.84	41.77	38.14	33.04	28.44	22.52	-2.46	0	0	0	0	105.24
10000	27.34	24.55	20.06	2.39	0	0	0	0	0	0	0	89.82
OASPL	82.88	83.06	82.33	82.09	82.06	81.95	81.63	81.05	80.06	78.47	76.21	145.93
PNL	93.4	93.33	91.34	89.79	88.74	87.53	85.93	84.13	81.86	79.13	75.46	91.5

NASA Lewis Allison AST Jet Noise Test 1996

rdg	145
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	573.86
m01	0.19955
pamb	14.1955
tamb	498.303
rhumid	65.13
winds1	0
nprc	1.17
nprb	1.205
ptc	16.6087
ptb	17.1056
wactc	1.731
wactb	9.182
ttc	1120.42
ttb	506.061
ptmix	17.0266
ttmix	803.51
mixpnd	0.476452
grsvixp	6262.53
badchan	{26}
bkgnd	133
escdate	19.Nov.96
esctime	17:35:37
DADSdate	97.08.25
DADStime	17:35:37
btchdate	19.Nov.96
btchtime	17:35:37

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 09:45:38 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.36	55.03	56.25	57.95	59.52	59.14	58.47	60.49	62.03	60.29	60.03	60.96
100	54.31	56.73	58.51	59.42	59.8	60.14	61.58	61.86	60.54	59.68	59.39	59.76
130	58.87	60.26	60.52	60.22	62.77	62.93	62.06	61.77	60.74	60.67	61.61	62.78
160	61.56	61.76	62.76	62.86	63.87	63.25	62.85	62.48	63.04	63	63.53	64.77
200	62.18	62.44	64.01	64.93	66	65.39	64.87	65.72	65.72	65.75	65.82	66.24
250	65.83	66.69	69.28	69.48	70	68.88	68.74	69.66	70.42	71.04	71.62	72.96
320	65.03	68.53	68.68	69.95	69.44	68.45	68.9	69.88	70.46	70.35	70.93	71.44
400	65.03	67.73	68.89	68.68	68.73	68.94	69.38	69.58	70.26	71	71.64	72.24
500	65.51	69.84	69.97	69.82	69.62	70.62	70.49	70.46	70.62	71.01	71.72	72.49
630	65.69	70.84	70.53	70.56	70.77	71.44	71.41	71.89	72.14	72.55	72.79	73.56
800	66.94	71.12	69.9	69.56	70.63	70.43	71.07	71.17	71.95	72.33	72.8	73.31
1000	66.74	70.68	68.81	69.77	69.7	70.36	70.5	71.1	71.64	72.31	72.9	72.74
1300	66.37	70.38	67.96	69.52	69.45	70.25	70.28	70.77	71.82	71.94	72.53	73.01
1600	66.14	68.71	67.54	68.6	69.09	69.54	69.95	69.79	69.57	70.13	70.81	71.26
2000	66.44	67.06	66.96	67.85	67.93	68.58	68.81	69.09	68.69	68.88	69.59	70.17
2500	66.95	67.78	67.14	67.9	68.02	68.13	68.76	68.74	67.88	68	68.25	69.12
3200	68.63	68.31	68.25	68.61	68.45	68.38	69	68.65	67.92	67.93	68.02	69.07
4000	70.16	67.88	67.95	68.46	68.05	68.14	68.91	67.98	67.86	67.94	67.85	68.56
5000	69.56	69.39	68.66	69.63	67.75	66.71	69.63	68.96	68.45	68.43	68.33	68.74
6300	71.31	70.08	69.91	70.84	68.17	68.87	70.27	69.64	69.1	69.16	68.27	68.96
8000	71.89	70.73	70.17	71.21	69.32	69.63	71.36	70.14	69.85	69.58	68.74	69.83
10000	70.41	70.13	67.83	69.31	67.96	68.9	68.44	67.9	67.95	67.23	67.01	66.94
OASPL	80.64	81.91	81.37	82.02	81.72	81.99	82.4	82.42	82.58	82.63	83.17	83.79

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	62.15	62.8	62.36	61.57	61.54	62.55	63.76	63.84	62.99	51.68	0	103.67
100	60.71	61.58	62.09	62.54	63.44	64.61	65.04	64.8	64.64	66.29	0	104.48
130	62.78	63.32	64.37	64.97	65.53	66.53	66.97	66.83	66.68	67.2	0	106.3
160	64	65.16	66.32	66.39	66.27	66.54	66.56	66.72	67.05	67.37	61.24	107.41
200	67.81	69.14	69.69	69.66	69.26	68.94	69.15	68.88	67.97	67.2	66.77	109.93
250	73.04	73.54	74	74.26	74.42	74.36	74.22	73.35	72.12	71.81	71.44	114.78
320	72.52	72.96	73.61	73.73	73.48	73.41	72.5	71.46	70.66	69.65	69.24	114.07
400	72.87	73.13	73.65	73.47	72.74	72.07	71.35	70.86	70.28	68.92	68.16	113.92
500	73.23	73.98	74.49	74.37	74.15	73.63	72.18	70.68	69.95	69.27	68.47	114.73
630	74.19	74.7	75.28	75.36	74.85	73.79	71.58	69.52	68.38	68.11	66.49	115.52
800	73.75	74.75	74.92	74.6	73.77	71.94	69.66	67.93	67.02	66.68	67.22	115
1000	72.87	73.73	74.01	73.8	72.86	71.1	69.27	67.73	65.63	66.05	67.07	114.45
1300	73.15	73.63	73.13	73.11	72.77	70.55	68.86	67.87	67.13	66.56	67.66	114.21
1600	71.96	72.4	72.67	72.59	71.57	69.75	68.42	67.72	67.21	66.73	67.33	113.15
2000	70.74	71.48	71.57	71.19	70.21	68.71	67.96	67.29	66.69	67.39	68.68	112.13
2500	70.5	70.52	70.11	69.63	68.64	68.07	68.21	67.45	66.39	68.28	71.42	111.57
3200	69.66	69.4	69.13	68.69	68.55	68.4	68.71	68.4	67.92	69.2	71.98	111.6
4000	68.86	68.75	68.58	68.2	67.96	68.29	68.53	67.81	67.31	69.75	72.87	111.31
5000	68.84	68.51	68.73	68.46	68.13	68.78	68.93	68.14	67.89	70.53	74.02	111.78
6300	69.53	69.21	68.99	68.31	67.97	68.9	69.19	68.41	68.17	70.75	73.99	112.32
8000	70.16	69.61	69.13	68.17	67.8	68.91	69.23	68.1	67.43	70.29	73.63	112.76
10000	67.86	67.69	67.53	66.84	66.15	66.12	66.29	65.06	63.85	66.33	70.14	110.77
OASPL	84.32	84.78	85.01	84.88	84.41	83.78	83.02	82.1	81.39	81.88	83.24	126

NASA Lewis Allison AST Jet Noise Test 1996

rdg 145
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 573.86
m01 0.19955
pamb 14.1955
tamb 498.303
rhumid 65.13
winds1 0
nprc 1.17
nprb 1.205
ptc 16.6087
ptb 17.1056
wactc 1.731
wactb 9.182
ttc 1120.42
ttb 506.061
ptmix 17.0268
ttmix 603.51
mxpnd 0.478452
grsvxp 6262.53
badchan (26)
bkgnd 133
escdate 19.Nov.96
esctime 17:35:37
DADSdate 97.08.25
DADStime 17:35:37
btchdate 19.Nov.96
btchtime 17:35:37
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 09:45:49 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	32.57	35.46	37.44	37.9	37.68	38.54	41.92	40.45	40.18	42.84	42.73	42.59	42.13	41.2	39.84	41.84	41.02	40.3	39.14	37.75	36.46	35.71	0	104.84
100	32.8	35.27	39.26	39.47	41.24	40.72	42.15	41.79	39.41	38.98	35.5	39.09	39.13	39.11	39.01	38.79	41.71	41.67	41.27	39.78	37.82	38.87	0	104.8
130	37.01	38.25	38.71	41.86	42.92	41.99	42.81	41.66	40.38	41.57	42.16	42.31	40.71	42.88	43.65	42.8	41.61	40.88	41.64	40.49	39.29	37.8	0	108.31
160	38.15	40.02	40.98	42.12	45.51	44.27	44.72	42.3	42.43	43.6	43.75	44.39	44.9	45.25	45.3	44.57	44.82	43.63	42.22	40.71	38.76	37.3	34.02	108.05
200	42.06	42.66	46.12	45.92	48.33	47.12	48.39	45.44	45	45.28	45.3	47.32	48.02	48.44	49.29	48.75	47.88	48.54	47.35	45.17	42.35	41.06	38.15	111.62
250	43.52	48.23	48.81	50.4	49.92	48.87	48.82	49.22	51.09	51.47	52.4	53.1	53.34	53.16	53.29	52.56	51.78	50.37	48.61	46.48	43.6	40.46	36.43	115.18
320	42.62	45.23	45.97	46.74	46.99	47.58	48.17	49.28	49.29	48.98	48.79	49.12	49.42	49.66	50.01	49.19	48.68	47.28	45.7	43.58	41.32	38.03	34.2	112.29
400	41.74	46.14	47.6	48.26	48.12	49.09	49.15	48.67	49.53	50.09	50.65	50.94	50.85	50.79	50.91	50.44	48.77	47.58	44.97	42.63	40.13	37.04	33.21	113.11
500	41.1	46.93	47.22	47.92	48.58	49.52	49.66	49.2	49.46	49.94	50.84	51	51.3	51.48	51.24	50.47	49.77	47.92	44.72	41.21	38.07	34.54	30.71	113.31
630	41.93	47.3	46.93	46.93	48.06	48.23	46.95	50.25	50.34	50.8	50.73	51.28	51.59	51.88	51.55	50.32	48.32	46.05	42.3	38.66	35.74	33.21	29.73	113.17
800	42.3	46.89	45.68	46.26	46.75	47.46	47.82	49.07	49.95	49.66	49.83	50	50.07	50.39	50.16	49.29	47.63	44.6	41.1	37.57	33.93	30.21	26.55	112.06
1000	41.15	45.65	44.07	45.94	45.98	46.96	47.12	48.53	48.98	49.52	49.81	49.22	49.09	49.5	48.68	47.73	45.95	42.95	39.61	36.38	33.12	29.3	25.32	111.17
1300	39.96	43.89	42.4	44.28	44.95	45.7	46.28	47.72	48.54	48.76	49.07	49.17	48.86	48.37	47.35	46.77	45	41.1	38.1	35.51	32.38	27.89	22.9	110.26
1600	39.01	41.75	41.56	42.9	43.63	44.32	44.58	46.18	45.88	46.07	48.54	48.57	46.63	48.53	46.1	44.71	42.32	39.47	36.72	33.82	30.29	26.44	21.19	108.26
2000	38.09	39.63	40.3	41.6	42.12	42.57	43.42	44.79	44.25	44.28	44.47	44.86	45.09	44.81	43.76	42.2	40.14	37.8	35.44	32.1	27.93	25.38	21.44	106.5
2500	37.41	38.66	39.29	40.58	40.98	41.27	42.15	43.48	42.58	42.53	42.47	42.79	43.45	42.71	41.4	39.79	37.77	35.91	34.21	31.13	26.97	23.13	15.44	104.82
3200	36.31	36.62	37.31	38.4	38.59	38.92	39.81	41.92	41.13	40.91	40.67	41.17	40.95	40.09	38.86	37.37	35.58	33.7	31.78	28.13	23.2	17.89	0	102.74
4000	32.56	32.47	33.29	35.03	34.35	35.71	36.99	38.99	38.86	38.86	38.33	38.67	38.22	36.93	35.81	34.16	32.11	30.49	27.91	23.35	11.06	0	0	99.78
5000	25.88	27.45	28.38	30.33	28.93	30.69	32.24	36.53	35.93	35.73	35.24	34.89	34.39	33.16	31.79	29.58	27.34	25.24	20.54	0	0	0	0	95.95
6300	3.38	9.75	17.22	21.48	19.57	20.75	24.48	31.81	31.27	31.08	29.74	29.79	29.38	27.64	25.4	21.45	14.03	0	0	0	0	0	0	90.08
8000	0	0	0	0	0	0	0	23.23	22.83	22	19.23	20.11	17.38	8.9	0	0	0	0	0	0	0	0	0	79.77
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	52.6	56.4	56.75	57.66	58.26	58.44	58.94	59.34	59.71	60.01	60.34	60.72	60.85	60.93	60.79	59.96	58.83	57.3	55.27	52.95	50.38	48.03	43.34	123.03
PNL	61.87	64.38	64.8	66.05	66.55	66.96	67.75	67.88	67.59	67.69	67.73	68.06	68.27	67.9	67.3	66.08	64.66	62.63	60	56.87	53.3	49.39	43.54	68.28

NASA Lewis Allison AST Jet Noise Test 1996

rdg	144
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	834.06
m01	0.19926
pamb	14.1987
tamb	498.247
rhumid	65.87
winds1	0
nprc	1.389
nprb	1.44
ptc	19.722
ptb	20.4461
wactc	2.721
wactb	13.598
ttc	1180.29
ttb	505.261
ptmix	20.3254
ttmix	617.614
mbxpnd	0.684439
grsvixp	13611.4
badchan	(26)
bkgnd	133
escdate	19.Nov.96
esctime	17:29:09
DADSdate	97.08.19
DADStime	17:29:09
btchdate	19.Nov.96
btchtime	17:29:09

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 17:23:10 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	66.65	67.68	68.51	69.19	69.75	70.22	70.61	70.93	71.21	71.46	71.68	71.93
100	67.89	69.16	70.19	70.87	71.31	71.58	71.73	71.81	71.84	71.84	71.86	71.96
130	67.94	68.73	69.32	69.77	70.11	70.38	70.61	70.83	71.05	71.28	71.55	71.87
160	70.03	71.36	72.01	72.34	72.62	72.98	73.24	73.34	73.5	73.89	74.53	75.09
200	71.25	72.83	73.5	73.87	74.13	73.99	73.91	73.85	73.88	74.37	75.2	76
250	73.3	74.32	74.78	75.03	75.28	75.49	75.74	76.02	76.35	76.74	77.19	77.69
320	73.72	75.23	75.84	75.98	75.95	75.92	75.98	76.11	76.44	76.97	77.71	78.55
400	74.83	76.46	76.77	76.69	76.84	77.5	78.15	78.64	79.02	79.44	79.83	80.17
500	75.29	77.31	77.93	78.03	78.16	78.54	78.67	78.94	79.38	79.78	80.31	80.82
630	75.86	78	78.44	78.57	78.73	78.97	79.27	79.58	79.85	80.22	80.73	81.37
800	77.98	79.76	79.99	79.8	79.88	80.43	81.03	81.23	81.21	81.34	81.39	81.88
1000	78.56	81.07	80.71	80.86	81.04	81.49	81.78	81.93	81.99	82.09	82.37	82.87
1300	79.54	81.79	81.82	81.72	81.71	81.85	82.15	82.18	82.29	82.97	83.4	83.22
1600	79.79	81.19	81.39	81.38	81.37	81.29	81.12	80.98	80.99	81.23	81.77	82.58
2000	78.3	80.28	80.53	80.29	80.02	80.08	80.23	80.25	80.38	80.84	81.39	82.08
2500	78.79	78.36	78.82	78.79	78.64	78.87	79.4	79.86	79.79	80.08	80.38	81.31
3200	76.37	77.58	77.89	77.81	77.81	78.26	78.92	79.02	79.02	79.41	79.87	80.67
4000	75.87	76.92	76.98	76.71	76.6	77.21	78.1	77.85	77.87	78.39	78.8	79.69
5000	75.01	76.58	76.39	75.7	75.32	76.28	77.22	77.05	76.83	77.31	77.89	78.32
6300	75.4	75.92	75.92	75.41	74.8	75.49	76.43	76.29	76.2	76.79	76.97	77.05
8000	75.81	76.18	75.69	75.05	74.68	75.2	75.88	75.89	75.75	76.02	76.6	76.88
10000	74.38	74.33	73.67	73.3	73.09	73.3	73.26	73.06	72.84	73.28	74.19	73.6
OASPL	89.23	90.85	90.99	90.93	90.94	91.24	91.6	91.7	91.81	92.18	92.6	93.11

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.22	72.6	73.07	73.66	74.38	75.2	76.05	76.87	77.71	78.7	80.24	115.75
100	72.19	72.62	73.25	74.11	75.17	76.31	77.42	78.4	79.25	80.11	81.28	116.7
130	72.27	72.79	73.43	74.21	75.16	76.26	77.39	78.49	79.54	80.67	82.11	116.59
160	75.41	75.65	75.92	76.42	77.23	78.05	78.78	79.37	79.77	80.02	80.25	118.33
200	76.5	76.71	76.93	77.32	77.85	78.42	78.93	79.29	79.56	79.81	80.15	118.96
250	78.19	78.65	79.08	79.43	79.92	80.65	81.23	81.44	81.2	80.57	79.6	120.81
320	79.35	80	80.45	80.66	80.62	80.34	79.83	79.2	78.5	77.81	77.22	121.01
400	80.48	80.8	81.11	81.2	80.99	80.59	80.05	79.39	78.61	77.81	77.17	122.13
500	81.25	81.6	81.84	81.65	81.55	80.93	80.03	78.98	77.86	76.85	76.16	122.7
630	81.99	82.46	82.61	82.4	81.9	81.15	80.23	79.21	78.19	77.24	76.5	123.24
800	82.48	82.97	83.31	83.16	82.4	81.32	80.2	78.93	77.55	76.49	76.13	124.11
1000	83.31	83.67	83.67	83.54	82.41	80.96	79.86	78.78	77.45	76.34	75.98	124.77
1300	83.86	84.3	84.56	84.02	82.75	81.28	79.97	78.72	77.61	76.93	76.99	125.33
1600	83.33	83.78	83.73	83.19	82.25	80.91	79.67	78.4	77.14	76.29	76.31	124.58
2000	82.78	83.33	83.28	82.57	81.35	80	78.95	77.91	76.92	76.47	76.69	123.88
2500	82.02	82.31	82.17	81.64	80.62	79.28	78.3	77.2	76.09	75.84	76.59	122.89
3200	80.7	80.98	80.57	80.01	79.3	77.89	76.61	75.92	75.31	75.41	76.5	121.91
4000	79.41	79.15	78.88	78.55	77.93	76.89	75.89	74.87	74.27	74.94	76.78	120.75
5000	77.87	77.59	77.17	76.73	76.16	75.22	74.71	74.12	73.7	74.62	76.56	119.6
6300	76.71	76.55	75.85	75.27	74.96	74.39	74.08	73.57	73.39	74.73	76.88	118.8
8000	75.75	75.38	74.95	74.46	74.23	74.16	74.25	73.59	73.06	74.72	77.04	118.38
10000	72.33	72.47	72.59	72.51	72.24	71.68	71.48	70.81	70.24	71.59	74.32	115.94
OASPL	93.5	93.87	93.97	93.72	93.15	92.45	91.94	91.45	91.03	90.99	91.53	136.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	144
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	834.08
m01	0.19926
pamb	14.1967
tamb	496.247
rhumid	65.87
winds1	0
nprc	1.389
nprb	1.44
ptc	19.722
ptb	20.4461
wactc	2.721
wactb	13.598
ttc	1160.29
ttb	505.261
ptmix	20.3254
ttmix	617.814
mixpnd	0.684439
grswxp	13611.4
badchan	(26)
bkgnd	133
escdate	19.Nov.96
esctime	17:29:09
DADSdate	97.08.19
DADStime	17:29:09
btchdate	19.Nov.96
btchtime	17:29:09

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 17:23:20 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1506.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	43.47	47.84	48.48	48.82	49.2	49.52	52.08	50.89	49.35	52.01	51.68	51.53
100	44.75	45.68	48.56	49.11	49.49	49.03	50.74	51.73	50.6	49.63	49.18	51.21
130	46.98	47.93	48.58	51.24	51.57	51.55	53.17	50.72	50.72	52.44	51.94	51.46
160	47.9	51.11	51.75	52.02	53.59	53.2	53.89	53.16	52.78	53.81	54.06	54.19
200	50.12	51.53	53.08	53.18	54.28	54.31	55.48	53.58	53.04	54.1	54.41	55.6
250	51.33	53.26	54.85	55.62	55.55	55.76	55.73	55.59	56.67	56.73	57.59	57.63
320	51.63	53.38	54.34	54.72	55.41	56.27	56.83	55.5	55.73	56.44	56.47	57.34
400	51.76	54.34	55.42	55.94	56.31	56.98	57.32	57.73	58.22	58.58	58.93	59.06
500	51.35	54.21	55.16	56.08	56.63	57.03	57.61	57.68	58.16	58.48	58.63	59.1
630	52.2	54.84	56.19	56.53	57.16	58.03	58.87	57.91	58.21	58.77	59.04	59.17
800	53.56	56.14	56.83	57.2	57.69	58.58	59.13	59.13	59.09	58.94	59.05	59.38
1000	53.64	56.91	57.27	57.78	58.16	58.48	58.9	59.37	59.29	59.2	59.11	59.32
1300	53.56	55.77	58.11	56.89	57.57	57.78	57.6	59.13	59.16	59.09	59.92	59.48
1600	51.87	54.66	55.45	55.62	55.5	55.7	55.95	57.39	57.34	57.41	57.8	58.27
2000	49.19	51.72	52.77	53.02	53.23	53.59	54.08	55.95	56	56.28	56.49	56.76
2500	46.31	48.58	49.7	50.3	50.72	51.43	52.18	54.4	54.43	54.43	54.39	54.67
3200	43.34	45.52	46.5	46.82	47.2	48.16	49.17	52.3	52.19	52.31	52.44	52.77
4000	38.09	40.66	41.8	42.05	42.35	43.62	44.82	48.93	48.82	49.08	49.03	49.39
5000	30.72	33.96	35.08	35.67	35.81	37.29	38.81	44.76	44.35	44.58	44.69	44.33
6300	19.37	22.89	25.25	26.38	26.98	28.5	29.83	38.53	38.4	38.62	38.29	37.72
8000	0	0	0	0	0	0	0	30.01	29.74	29.64	29.55	28.54
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	63	65.5	66.39	66.92	67.4	67.85	68.41	68.68	68.76	69.08	69.29	69.53
PNL	72.85	75.28	76.2	76.59	76.87	77.29	77.83	78.09	78.12	78.33	78.45	78.74

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.48	51.48	51.46	52.96	52.31	51.83	51.3	50.76	49.94	48.78	47.33	115.92
100	51.14	50.9	50.54	50.3	52.56	52.9	53.1	52.98	52.43	51.43	49.99	116.49
130	51.52	54.08	53.87	53.2	52.6	52.49	52.43	53.51	52.64	51.14	48.9	117.3
160	55	54.12	53.58	53.43	54.38	53.83	52.99	51.58	49.99	49.57	47.23	117.96
200	55.47	55.31	55.89	55.53	55.1	55.87	55.03	54.03	52.49	50.89	47.55	119.3
250	58.34	58.35	58.75	58.23	58.11	56.99	55.44	53.89	51.38	47.97	44.18	121.02
320	57.79	57.61	57.67	57.01	56.63	55.3	54.2	52.16	49.81	47.09	43.29	120.25
400	58.81	58.91	58.82	58.44	57.13	55.8	53.53	51.3	48.43	44.88	40.87	121.33
500	59.35	59.24	58.71	57.84	56.78	54.87	53.05	50.56	47.53	43.93	39.51	121.24
630	59.12	59.1	58.61	57.72	56.33	54.5	52.08	49.31	46.04	42.2	37.59	121.35
800	59.85	60	59.7	58.64	56.72	54.14	51.43	48.37	44.65	40.58	35.85	121.9
1000	59.36	59.33	59.13	58.01	55.7	53.13	50.46	47.34	43.69	39.46	34.32	121.74
1300	59.62	59.51	58.84	57.42	55.26	52.37	49.39	45.94	42.05	37.43	31.73	121.47
1600	58.45	58.23	57.31	55.66	53.47	50.75	47.84	44.58	40.63	36	30.03	119.87
2000	56.92	56.6	55.74	54.07	51.7	48.93	46.01	42.37	38.03	33.37	27.26	118.14
2500	54.85	54.4	53.19	51.59	49.31	45.98	42.92	39.38	35.02	29.87	22.94	115.96
3200	51.96	51.26	49.97	48.15	45.83	42.89	39.46	35.37	30.44	24.94	10.2	113.24
4000	48.35	47.01	45.39	43.55	41.18	37.88	34.3	29.82	24.03	11.67	0	109.36
5000	42.86	41.52	39.53	37.24	34.63	31.13	27.15	20.77	0	0	0	104.2
6300	36.32	34.72	32.29	29.54	26.13	21.2	10.77	0	0	0	0	97.48
8000	25.84	23.02	18.95	9.46	0	0	0	0	0	0	0	87.74
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	69.68	69.62	69.28	68.41	67.26	65.86	64.32	62.6	60.68	58.9	56.28	132.05
PNL	78.69	78.38	77.63	76.27	74.45	72.14	69.6	66.93	63.68	60.17	55.4	78.67

NASA Lewis Allison AST Jet Noise Test 1996

rdg	143
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ADV
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	980.23
m01	0.20294
pamb	14.1972
tamb	496.731
rhumid	64.58
winds1	0
nprc	1.541
nprb	1.811
ptc	21.8779
ptb	22.8717
wactc	3.157
wactb	16.172
ttc	1322.51
ttb	505.16
ptmix	22.7094
ttmix	638.658
mixpnd	0.774992
gravtxp	18560.3
badchan	(26)
bkgnd	133
escdate	19.Nov.96
esctime	17:20:22
DADSdate	97.08.19
DADStime	17:20:22
btchdate	19.Nov.96
btchtime	17:20:22

**Scenario: 150 foot arc: 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 17:25:20 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (l	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	69.77	71.69	72.86	73.53	73.89	74.07	74.2	74.37	74.64	75.09	75.76	76.63
100	73.86	74.33	74.78	75.22	75.86	76.1	76.53	76.94	77.32	77.68	78.02	78.37
130	73.42	74.21	74.66	74.87	74.95	74.98	74.99	75.05	75.19	75.44	75.83	76.37
160	75.18	76.7	76.92	76.67	76.54	76.86	77.41	77.87	78.11	78.32	78.59	78.98
200	76.17	77.55	78.36	78.82	79.04	79.1	79.09	79.1	79.19	79.39	79.73	80.2
250	76.98	78.22	78.81	79.06	79.22	79.42	79.69	80.03	80.46	80.96	81.54	82.19
320	78.71	80.22	80.82	80.92	80.83	80.72	80.86	80.7	80.87	81.18	81.66	82.26
400	78.75	80.26	80.7	80.78	80.95	81.46	82.18	82.8	83.29	83.68	84	84.44
500	80.21	81.81	82.4	82.5	82.5	82.59	82.8	83.09	83.47	83.89	84.37	84.88
630	80.6	82.71	83.67	83.94	83.81	83.59	83.64	84.04	84.61	84.58	84.42	85.4
800	82.87	84.92	84.92	84.93	84.96	84.69	84.66	84.93	85.12	85.37	86.09	86.67
1000	85.24	87.13	86.1	86.1	85.77	85.48	85.4	85.54	85.87	86.37	87.08	87.95
1300	86.66	88.27	87.06	87.09	86.66	86.03	85.76	86.09	86.56	86.9	87.56	88.59
1600	87.09	87.47	86.8	86.2	85.86	85.77	85.8	86.01	86.33	86.69	87.73	88.84
2000	86.05	85.94	85.88	86.12	86.23	86.06	85.83	85.79	85.88	86.31	87.26	88.39
2500	84.32	84.27	84.55	85.2	85.47	85.15	85.08	85.11	85.17	85.78	86.92	87.94
3200	82.87	82.81	83.26	84.01	84.21	84.18	84.64	84.78	84.8	85.02	86.05	87.12
4000	82.05	81.7	81.92	82.81	83.22	83.38	83.74	83.75	83.77	84.17	84.96	85.94
5000	80.42	81.09	81.27	81.64	81.34	81.54	82.45	82.73	82.58	83	83.92	84.43
6300	80.18	80.26	80.88	80.93	80.63	80.66	81.51	81.89	81.85	82	82.3	82.53
8000	80.12	79.72	79.97	80.44	80.1	80.16	81.1	81.24	81.2	81.26	81.46	81.5
10000	79.09	77.71	77.58	78.22	78.54	78.39	78.34	78.51	78.38	78.23	78.56	77.68
OASPL	95.44	96.27	96.1	96.27	96.21	96.06	96.21	96.41	96.62	96.99	97.67	98.5

distance: (l	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.52	78.26	78.73	79.09	79.58	80.39	81.61	83.14	84.84	86.76	89.33	121.45
100	78.76	79.27	79.92	80.73	81.72	82.9	84.25	85.64	86.97	88.28	89.83	123.35
130	77.07	77.93	78.95	80.12	81.44	82.89	84.46	85.98	87.33	88.56	89.89	122.97
160	79.44	80.01	80.66	81.42	82.34	83.5	84.88	86.05	86.77	87.29	87.95	123.69
200	80.8	81.5	82.26	82.96	83.58	84.16	84.78	85.23	85.41	85.32	85.01	124.21
250	82.64	83.45	83.98	84.57	85.18	85.61	85.88	86.22	86.45	86.32	85.86	125.49
320	82.86	83.54	84.33	84.94	85.36	85.79	86.17	86.07	85.48	84.66	83.39	125.78
400	85.21	86.09	86.76	86.98	86.66	86.05	85.52	85.08	84.53	83.75	82.61	127
500	85.31	85.8	86.41	86.61	86.27	85.95	85.67	85.31	84.73	83.88	82.74	127.25
630	86.28	86.82	87.04	86.88	86.52	86.06	85.3	84.3	83.25	82.3	81.46	127.8
800	87.55	87.99	88.18	87.54	86.47	85.67	84.99	84.21	83.32	82.52	81.8	128.72
1000	88.7	88.94	88.99	88.05	86.66	85.98	85.04	84.08	83.36	82.79	82.21	129.6
1300	89.58	89.7	89.71	88.43	86.66	85.92	85.23	84.29	83.19	82.28	81.85	130.25
1600	89.69	90.09	90.11	88.6	86.37	85.3	84.69	83.97	83.01	82.16	81.79	130.19
2000	89.34	89.82	89.71	88.28	86.33	85.17	84.39	83.7	83.04	82.46	82.11	129.82
2500	88.56	88.9	88.43	87.09	85.54	84.35	83.49	82.77	82.1	81.59	81.75	128.95
3200	87.73	87.73	87.5	86.11	84.23	83.23	82.59	81.89	81.14	80.7	81.19	128.01
4000	86.34	85.95	85.71	84.51	82.83	82.02	81.28	80.34	79.59	78.57	80.74	126.78
5000	84.81	84.03	83.92	82.87	81.25	80.55	79.83	78.91	78.21	78.4	79.96	125.35
6300	82.85	82.38	81.87	80.88	79.62	78.9	78.23	77.52	77.18	77.86	79.78	124.08
8000	81.22	80.51	80.16	79.28	78.21	77.87	77.42	76.7	76.33	77.25	79.49	123.18
10000	77.45	77.28	77.1	76.53	75.6	74.77	74.31	73.54	72.93	74.01	76.79	120.47
OASPL	99.21	99.47	99.55	98.82	97.9	97.54	97.39	97.31	97.29	97.45	98.02	140.39

NASA Lewis Allison AST Jet Noise Test 1996

rdg	143
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mxbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	960.23
m01	0.20294
pamb	14.1972
tamb	498.731
rhumid	64.58
winds1	0
nprc	1.541
nprb	1.611
ptc	21.8779
ptb	22.8717
wactc	3.157
wactb	16.172
ttc	1322.51
ttb	505.16
ptmix	22.7094
ttmix	638.658
mixpnd	0.774992
grsvixp	18560.3
badchan	(26)
bkgnd	133
escdate	19.Nov.96
esctime	17:20:22
DADSdate	97.08.19
DADStime	17:20:22
btchdate	19.Nov.96
btchtime	17:20:22

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 17:25:30 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	48.04	52.43	52.88	53.28	53.78	54.29	56.9	54.32	52.74	56.86	56.78	56.73
100	51.44	51.64	54.02	54.39	54.83	53.91	55.17	56.87	56.25	55.65	55.35	57.1
130	52.46	53.51	53.82	55.65	55.71	55.38	57.33	54.84	54.83	56.34	56.13	56.07
160	53.26	56.16	56.69	56.85	58.45	58.37	58.97	57.69	57.48	58.55	58.46	58.43
200	54.62	55.83	57.42	57.52	58.44	58.46	58.43	58.82	58.35	58.78	58.67	58.5
250	55.88	57.82	59.46	60.27	60.2	60.43	60.42	59.6	60.78	60.89	61.77	61.88
320	55.78	57.47	58.43	58.94	59.46	60.24	60.87	60.09	60.16	60.59	60.38	61.2
400	56.21	58.96	60.17	60.65	61	61.26	61.62	61.89	62.51	62.86	63.15	63.3
500	56.66	58.73	60.09	60.94	61.56	61.74	61.88	61.84	62.15	62.52	62.86	63.17
630	56.75	59.89	60.67	61.24	61.77	62.01	62.47	62.38	62.98	63.06	62.8	63.53
800	59.16	62.02	62.18	62.67	62.8	62.75	62.76	62.83	63.06	63.09	63.58	64.17
1000	60.52	63.02	62.29	63.21	63.12	62.67	62.54	62.98	63.21	63.64	64.05	64.89
1300	60.92	62.66	62.34	61.95	61.64	61.99	62.16	63.03	63.59	63.79	64.2	64.6
1600	59.6	60.18	60.37	60.78	61.16	61.4	61.51	62.4	62.67	63.18	63.7	64.45
2000	56.82	57.57	58.39	59.48	60.04	59.9	59.82	61.49	61.47	61.67	62.4	63.15
2500	53.39	54.45	55.39	56.54	57.08	57.33	57.91	59.64	59.83	60.21	60.98	61.56
3200	49.59	50.38	51.55	53	53.95	54.32	54.8	58.06	57.72	57.91	58.63	59.13
4000	44.07	45.56	46.85	48.19	48.52	49.03	50.09	54.83	54.74	54.89	55.27	55.5
5000	36.16	38.27	39.82	41.27	41.72	42.36	43.81	50.41	50.07	50.12	50.52	50.31
6300	25.15	27.76	30.31	32.1	32.9	33.65	35.03	44.19	44.12	43.96	43.86	43.1
8000	0	0	0	10.09	13.71	16.93	18.75	35.41	35.25	34.83	34.33	33.34
10000	0	0	0	0	0	0	0	19.9	18.4	16.6	14.82	8.4
OASPL	68.99	70.97	71.43	71.99	72.32	72.41	72.75	73.07	73.31	73.67	74.01	74.54
PNL	79.46	80.95	81.32	82.17	82.65	82.7	82.96	83.21	83.27	83.82	84.13	84.63

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.69	56.63	56.6	56.67	58.23	58.04	57.98	58.02	57.85	57.37	56.59	122.05
100	57.17	56.87	56.41	55.99	58.13	58.42	58.76	58.92	58.73	58.08	56.84	122.38
130	56.37	58.29	58.39	58.55	58.77	59.27	60.76	60.79	60.13	58.65	56.69	123.39
160	59.62	59.45	59.45	60.41	59.97	59.55	58.97	58.32	58.01	56.07	53.21	123.55
200	59.45	59.66	60.76	60.67	61.49	61.07	60.41	58.4	57.74	56.41	53.27	124.24
250	62.61	62.78	63.35	63	62.71	61.66	60.71	59.71	57.55	54.45	50.2	125.74
320	61.54	61.66	62.47	62.18	61.87	60.61	59.78	57.88	55.63	52.95	48.82	124.85
400	63.64	63.85	63.83	63.46	61.94	60.72	59.01	57.58	55.15	51.97	47.37	126.09
500	63.33	63.49	63.21	62.56	61.55	59.92	58.14	55.65	52.81	49.01	44.39	125.69
630	64.11	64.19	63.79	62.53	60.77	59.15	57.15	54.55	51.68	48.04	43.19	125.95
800	64.35	64.49	64.2	62.8	60.58	58.71	56.38	53.77	50.78	46.96	41.81	126.43
1000	65.41	64.94	64.52	62.53	59.86	57.74	55.24	52.53	49.12	44.88	39.27	126.7
1300	65.49	65.22	64.5	62.27	59.28	57.06	54.77	51.74	47.97	43.47	37.48	126.51
1600	64.91	64.6	63.8	61.45	58.21	55.62	53.1	50.18	46.53	41.87	35.38	125.68
2000	63.47	63.29	62.2	59.74	56.69	53.94	51.25	48.08	44.13	39.03	32.28	124.2
2500	61.85	61.08	59.83	57.26	54.21	51.47	48.58	45.2	40.92	35.4	27.82	122.11
3200	59.03	58.11	56.72	54.08	50.8	47.99	44.83	40.82	35.87	29.84	20.8	119.37
4000	55.11	53.69	52.35	49.73	46.18	43.22	39.58	34.85	29.04	20.9	0	115.45
5000	49.58	47.74	46.21	43.38	39.51	36.05	31.83	26.23	17.02	0	0	110.05
6300	42.18	40.14	37.95	34.82	30.79	26.43	19.65	0	0	0	0	102.99
8000	31.54	28.81	25.87	21.1	8.37	0	0	0	0	0	0	93.09
10000	0	0	0	0	0	0	0	0	0	0	0	74.51
OASPL	74.95	74.85	74.54	73.46	72.2	71.04	70.03	68.88	67.45	65.65	63.32	137.14
PNL	84.8	84.45	83.88	81.82	79.47	77.38	75.21	73.08	70.33	66.86	62.29	84.24

NASA Lewis Allison AST Jet Noise Test 1996

rdg	142
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
ambrc	35.02
amixb	78.39
scale	4
vid	1010.76
m01	0.20262
pamb	14.2035
tamb	498.798
rhumid	63.47
winds1	0
nprc	1.736
nprb	1.819
ptc	24.6573
ptb	25.8362
wactc	3.512
wactb	18.668
ttc	1403.26
ttb	504.045
ptmix	25.6495
ttmix	646.427
mixpnd	0.810857
grsvixp	22418.7
badchan	(26)
bkgnd	133
escdate	19.Nov.96
esctime	17:11:11
DADSdate	97.08.19
DADStime	17:11:11
blchdate	19.Nov.96
blchtime	17:11:11

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 15:44:42 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.8	75.46	76.1	76.72	77.32	77.91	78.48	79.05	79.62	80.17	80.73	81.29	81.9	82.58	83.38	84.29	85.35	86.57	87.94	89.39	90.9	92.6	94.88	126.87
100	77.68	78.87	79.65	80.13	80.42	80.59	80.69	80.79	80.91	81.1	81.36	81.74	82.25	82.93	83.79	84.86	86.13	87.61	89.29	91.03	92.72	94.4	96.37	128.3
130	77.16	78.63	79.44	79.8	79.89	79.86	79.79	79.79	79.91	80.21	80.73	81.5	82.46	83.58	84.82	86.14	87.52	88.94	90.38	91.73	92.93	94.08	95.43	128.55
160	79.06	80.23	80.71	80.86	80.92	80.96	81.05	81.24	81.56	82.04	82.68	83.53	84.89	85.86	86.65	87.18	87.75	88.54	89.61	90.74	91.76	92.66	93.59	128.58
200	79.64	81.64	82.62	82.78	82.81	82.94	82.78	82.81	83.19	83.8	84.49	85.15	85.69	86.03	86.36	87.31	88.68	89.62	90.47	91.14	91.46	91.59	91.77	129.17
250	81.59	82.65	82.77	82.52	82.32	82.39	82.69	83.16	83.75	84.41	85.1	85.81	86.55	87.33	88.17	89.06	89.92	90.71	91.39	91.75	91.68	91.36	91.02	129.88
320	82.77	83.66	83.85	83.73	83.61	83.66	83.88	84.26	84.71	85.18	85.56	86.03	86.86	87.67	88.74	89.42	89.8	89.87	90.22	90.35	90.01	89.64	89.23	129.79
400	83.25	84.41	84.84	84.97	85.06	85.21	85.44	85.76	86.19	86.76	87.52	88.29	88.69	89.19	90.03	90.55	90.47	90.15	89.59	88.92	88.22	87.5	86.74	130.59
500	84.42	85.89	86.08	85.78	85.55	85.71	86.04	86.28	86.6	87.13	87.82	88.58	89.32	89.92	90.3	90.39	90.25	90.03	89.8	89.29	88.34	87.3	86.53	130.95
630	84.79	86.39	86.84	86.78	86.7	86.81	87.06	87.36	87.78	88.33	88.9	89.42	90.11	90.71	90.97	90.95	90.68	90.22	89.7	88.75	87.58	86.83	86.38	131.6
800	87.22	88.31	88	87.72	87.82	88.12	88.51	88.88	89.03	89.23	89.83	90.64	91.32	91.74	91.71	91.32	90.72	89.98	89.1	88.17	87.26	86.56	86.19	132.44
1000	89.52	90.97	90.82	90.45	90.15	89.91	90.06	90.41	90.77	91.26	92.12	93.16	93.93	94.18	93.48	92.2	91.07	90.18	89.4	88.52	87.48	86.6	86.26	134.3
1300	89.54	90.45	90.23	90.45	90.43	90.45	90.58	90.8	91.2	91.9	92.83	93.87	94.58	95.18	94.17	92.48	91.14	90.16	89.43	88.55	87.45	86.7	86.68	134.7
1600	90.53	91.57	91.96	92.39	91.29	91.4	92.12	92.42	92.26	92.64	93.71	95.07	96.3	96.53	94.93	93.26	92.46	91.97	91.34	90.2	89.2	89.59	91.85	136.02
2000	91.7	91.63	92.11	92.45	91.63	91.86	92.86	92.87	92.58	92.94	94.13	95.21	96.01	95.99	94.98	93.64	92.58	92.1	91.98	91.58	90.98	90.91	91.6	136.23
2500	89.92	90.67	90.98	90.98	90.88	90.44	90.44	90.64	91.19	92.2	93.54	94.82	95.39	95.72	94.42	92.45	90.94	89.73	88.53	87.4	86.53	86.19	86.7	135.05
3200	90.03	90.39	90.78	90.87	90.62	90.31	90.29	90.52	91.25	92.26	93.28	94.46	95.02	94.95	93.66	91.87	90.35	89.09	87.95	86.84	85.94	85.64	86.39	134.7
4000	89.57	90.19	90.74	90.93	90.45	90.18	90.34	90.36	90.86	92.02	93.19	94.12	94.46	93.93	92.62	91.14	89.62	88.57	87.31	86.1	85.17	84.93	85.86	134.29
5000	87.89	89.79	90.09	90.04	89.26	89.29	89.89	90.01	90.15	91.19	92.32	93.04	93.23	92.69	91.44	89.87	88.38	87.14	86	84.84	83.91	83.78	84.8	133.31
6300	87.14	88.66	89.23	89.32	88.46	88.53	89.4	89.59	89.96	91.05	91.52	91.96	92.43	92.03	90.7	88.99	87.41	86.02	84.77	83.64	82.83	82.85	83.95	132.59
8000	86.45	87.81	88.21	88.55	87.91	87.98	88.94	89.14	89.42	90.44	91.12	91.26	91.61	91.17	89.87	88.09	86.46	85.2	84.01	82.79	81.92	82.1	83.48	131.9
10000	84.86	85.48	85.34	86.81	85.92	86.07	86.27	86.22	86.26	87.36	88.53	87.66	88.3	88.54	87.25	85.7	84.21	82.34	80.83	79.58	78.7	78.87	80.47	129.12
OASPL	100.47	101.43	101.68	101.79	101.36	101.35	101.77	101.96	102.22	102.95	103.9	104.78	105.45	105.59	104.76	103.76	103.12	102.75	102.62	102.53	102.54	102.92	103.92	146.01

NASA Lewis Allison AST Jet Noise Test 1996

rdg	142
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
ambb	78.39
scale	4
vid	1010.76
m01	0.20262
pamb	14.2035
tamb	498.798
rhumid	63.47
winds1	0
nprc	1.736
nprb	1.819
ptc	24.6573
ptb	25.8362
wactc	3.512
wactb	18.868
ttc	1403.26
ttb	504.045
ptmix	25.6495
ttmix	646.427
mixpnd	0.810857
grsvixo	22418.7
badchan	(26)
bkgnd	133
escdate	19.Nov.96
esctime	17:11:11
DADSdate	97.08.19
DADStime	17:11:11
btchdate	19.Nov.96
btchtime	17:11:11

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 15:44:48 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	52.87	57	57.51	57.81	58.05	58.17	61	59.01	57.72	60.9	60.63	60.41	60.26	60.21	60.3	62.86	62.87	63.16	63.55	64.02	64.22	64.06	63.64	127.36
100	55.18	55.8	58.38	58.85	59.11	58.43	58.93	60.72	60.03	59.41	59.11	61.27	61.45	61.32	61.11	60.96	64.09	64.48	64.75	64.79	64.46	63.73	62.5	127.67
130	57.63	58.78	58.98	60.23	60	59.53	60.99	58.67	59.56	60.9	60.74	60.77	61.19	63.53	63.78	63.99	64.08	64.31	65.35	65.26	64.78	63.63	62.01	128.22
160	56.28	59.72	60.95	61.32	62.54	62.44	62.69	61.08	60.88	62.38	62.54	62.86	64.46	64.41	64.31	64.11	64.89	64.81	64.59	64.16	63.86	62.11	59.61	128.42
200	59.08	60.54	61.69	61.15	61.59	61.44	62.46	62.53	62.41	63.34	63.53	64.4	64.3	64.17	65.16	65.49	66.79	66.6	65.97	64.92	63.23	61.83	59	129.1
250	60.1	61.35	62.32	62.84	62.67	63.22	63.59	62.73	64.16	64.31	65.28	65.22	66.19	66.59	67.43	67.29	67.01	66.23	65.23	64.33	62.31	59.54	56.01	129.64
320	60.33	61.65	62.25	62.68	63.36	63.95	64.12	63.84	63.94	64.49	64.18	64.96	65.71	65.78	66.24	66.15	65.79	64.45	63.6	61.78	59.6	56.94	53.05	128.72
400	60.55	62.73	63.66	63.97	64.03	64.27	64.79	64.85	65.43	65.92	66.53	66.86	66.73	67.2	67.4	67.31	66.37	65.4	63.52	61.68	58.92	55.65	51.51	129.67
500	60.68	62.75	63.57	63.9	64.37	64.7	65.1	65.02	65.27	65.73	66.3	66.89	67.5	67.74	67.45	66.67	65.48	63.61	61.66	59.42	56.28	53.14	48.98	129.37
630	61.63	63.35	64.07	64.26	64.62	65.29	66.26	65.7	66.13	66.77	67.14	67.42	67.63	67.71	67.07	66.03	64.84	63.51	61.66	58.94	55.88	52.14	47.6	129.59
800	63.76	65.89	66.3	66.82	67.11	67.13	67.36	66.77	67.1	67.19	67.8	68.69	69.18	69.32	66.5	66.96	65.01	62.99	60.73	58.12	54.84	50.77	45.88	130.77
1000	63.69	65.71	66.14	66.47	66.66	66.84	67.43	67.85	68.15	68.52	69.16	69.98	70.43	70.07	68.71	66.5	64.3	62.06	59.78	57	53.42	49.24	44.04	131.18
1300	63.42	65.3	66.06	66.58	66.66	67.36	68.16	67.75	68.17	68.84	69.63	70.11	70.9	70.9	68.96	66.2	63.91	61.82	59.37	56.44	52.92	48.84	43.97	131.41
1600	64.73	65.98	67.18	68.51	67.11	67.51	68.94	68.77	68.76	69.16	70.22	71.06	71.58	71.18	69.12	67.04	65.3	63.62	61.73	58.85	55.28	51.57	46.97	132.17
2000	61.88	63.57	64.33	64.82	64.97	65.07	65.13	68.64	68.03	68.16	68.97	69.9	70.19	69.57	67.57	64.75	61.89	59.32	56.42	52.99	48.96	44.01	37.49	130.3
2500	59.83	61.18	62.28	63.05	63.33	63.28	63.48	66.36	65.89	66.66	67.7	68.56	68.64	68.21	65.92	62.85	60.03	57.03	53.69	49.86	45.36	39.92	32.78	128.56
3200	57	58.48	59.86	60.79	60.86	60.97	61.31	63.77	64.43	65.25	65.99	66.77	66.52	65.46	63.25	60.36	57.48	54.35	50.78	46.53	41.41	35.2	26.88	126.45
4000	51.38	53.88	55.53	58.47	56.37	56.62	57.43	61.41	61.86	62.76	63.56	63.79	63.43	61.93	59.34	56.4	53.3	49.77	45.59	40.8	34.61	27.24	9.94	123.21
5000	43.45	47.17	48.79	49.67	49.75	50.36	51.5	57.82	57.68	58.49	59.05	58.97	58.31	58.7	54.09	50.68	46.99	42.94	38.19	32.49	25.07	6.17	0	118.27
6300	32.65	36.17	38.86	40.43	40.77	41.48	42.9	51.81	52.16	52.82	52.94	52.62	52.03	50.3	47.23	43.26	38.8	33.96	28.18	19.09	0	0	0	111.91
8000	7.44	19.02	22.59	24.62	25.96	27.38	28.59	43.33	43.44	44.01	44.03	43.14	42.01	39.65	36.06	31.36	25.83	17.3	0	0	0	0	0	102.37
10000	0	0	0	0	0	0	0	28.55	28.17	28.49	28.52	25.51	23.82	21.03	12.49	0	0	0	0	0	0	0	0	86.11
OASPL	73.27	75.05	75.88	76.45	78.51	76.75	77.43	77.78	77.98	78.5	79.15	79.8	80.19	80.04	79.09	77.82	76.97	75.95	75.01	73.92	72.64	71.13	69.25	141.97
PNL	84.49	86.12	87.19	88.1	87.64	87.94	88.89	89.03	88.97	89.61	90.37	91.03	91.18	90.77	89.09	86.95	85.3	83.5	81.55	79	75.68	72.42	66.55	90.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	146
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78 39
scale	4
vid	569.37
m01	0.30284
pamb	14.149
tamb	496.99
rhumid	68.48
winds1	0
nprc	1.176
nprb	1.212
ptc	16.6392
ptb	17.1486
wactc	1.709
wactb	9.158
ttc	1118.37
ttb	504.225
ptmix	17.0685
ttmix	600.608
mixpnd	0.473786
grsvixp	8187.34
badchan	(26)
bkgnd	134
escdate	19.Nov.96
esctime	17:58:28
DADSdate	97.08.20
DADStime	17:58:28
btchdate	19.Nov.96
btchtime	17:58:28

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 13:57:37 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	86	90	95	100	105	110
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0
200	55.04	59.32	59.25	58.74	59.86	61.06	61.31	61.48	61.67	61.86	62.05	62.24
250	64.73	68.72	69.48	69.49	69.67	69.23	69.48	69.66	69.98	70.32	70.65	70.96
320	66.22	68.47	69.38	69.27	68.69	68.25	68.7	69.6	70.06	69.84	69.66	69.88
400	64.06	68.01	69.05	68.89	68.68	68.9	69	69.22	69.74	70.34	70.96	71.43
500	64.95	69.18	69.73	69.16	68.85	69.02	69.41	69.72	69.99	70.21	70.83	71.82
630	65.34	69.66	70.06	69.9	70.23	69.98	70.47	70.68	71.1	70.9	70.89	71.57
800	66.65	69.78	69.89	69.41	69.24	69.38	69.58	70.14	70.28	70.12	70.35	70.89
1000	66.6	69.22	69.46	69.45	69.82	69.71	70.09	70.53	70.6	70.46	71.03	71.29
1300	66.06	68.57	68.94	69.13	69.54	69.62	69.71	70.2	70.55	70.51	70.23	70.25
1600	66.3	67.93	68.24	68.59	68.91	68.8	68.96	69.49	69.2	68.59	68.59	69.09
2000	66.62	67.33	67.32	67.77	67.86	67.82	68.29	68.49	68.11	67.63	67.58	68.04
2500	67.79	68.34	68.12	68.24	68.19	68.07	68.38	68.34	67.5	66.76	66.63	67.26
3200	69.93	69.27	68.91	69.24	68.98	68.71	68.78	68.34	67.65	67.15	66.86	66.86
4000	71.05	70.22	69.6	69.4	69.09	68.99	69	68.38	67.62	67.06	66.83	66.76
5000	71.24	71.31	70.99	70.87	69.79	69.54	69.99	69.32	68.48	67.92	67.59	67.22
6300	73.63	73.08	72.68	72.33	70.9	70.67	71.18	70.61	69.55	68.68	68.05	67.84
8000	74.22	74.5	73.84	73.3	71.78	71.59	72.7	71.6	70.38	69.28	68.63	68.45
10000	85.14	73.81	72.38	72.01	71.33	71.08	70.43	69.65	68.65	67.33	66.5	68.21
OASPL	86.6	82.73	82.54	82.38	81.96	81.84	82.14	82.1	81.86	81.57	81.6	81.92

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	115	120	125	130	135	140	145	150	155	160	165
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	115	120	125	130	135	140	145	150	155	160	165 PWL
80	0	0	0	0	0	0	0	0	0	0	0 42.93
100	0	0	0	0	0	0	0	0	0	0	0 42.93
130	0	0	0	0	0	0	0	0	0	0	0 42.93
160	0	0	0	0	0	0	0	0	0	0	0 42.93
200	62.43	62.52	62.46	62.22	61.83	61.55	61.49	61.62	61.67	61.72	0 104.28
250	71.24	71.46	71.85	72.4	72.64	73.07	73	72.6	72.03	71.44	70.23 113.75
320	70.73	71.6	72.08	71.84	71.06	70.74	70.86	70.43	69.77	68.84	67.31 112.92
400	71.87	72.07	72.19	72.33	72.34	71.76	70.92	70.28	69.22	67.89	66.56 113.29
500	72.45	72.82	72.95	72.97	73	72.7	71.96	70.89	69.56	68.33	66.05 113.82
630	72.51	73.04	73.3	73.35	73.05	72.3	71.31	70.32	69.18	68.04	66.16 114.15
800	71.68	72.45	72.68	72.4	72.04	71.48	70.66	69.6	68.33	67.25	67.24 113.47
1000	71.62	72.09	72.31	71.9	71.13	70.19	69.31	68.63	67.99	67.23	67.01 113.37
1300	71.02	71.41	71.44	71.23	70.77	70.16	69.47	68.8	68.09	67.4	67.65 112.95
1600	69.86	70.45	70.61	70.49	69.89	69.08	68.25	67.59	67.11	66.89	67.61 111.97
2000	69.1	69.58	69.55	69.2	68.61	67.98	67.37	66.74	66.29	66.46	68.27 111.05
2500	68.01	68.09	67.93	67.78	67.42	66.89	66.46	66.38	66.49	66.88	68.73 110.64
3200	67.34	67.52	67.28	67	66.87	66.9	66.96	67.05	67.26	67.91	69.89 110.93
4000	66.86	66.79	66.69	66.68	66.65	66.66	66.74	66.87	67.01	67.56	69.93 111.02
5000	67.07	66.97	66.95	66.96	66.89	66.97	67.22	67.48	67.69	68.33	70.55 111.79
6300	68.01	67.9	67.53	67.22	67.12	67.3	67.6	67.86	68.11	68.76	70.99 112.92
8000	68.39	68.13	67.89	67.34	67.23	67.46	67.86	68.13	68.35	68.89	70.71 113.74
10000	66.17	68.15	66.03	65.87	65.77	65.64	65.54	65.57	65.62	65.85	67.31 114.9
OASPL	82.47	82.83	82.96	82.87	82.62	82.24	81.79	81.3	80.76	80.43	81.14 125.26

NASA Lewis Allison AST Jet Noise Test 1996

rdg	146
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
namlbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	569.37
m01	0.30284
pamb	14.149
tamb	496.99
rhumid	68.48
winds1	0
nprc	1.176
nprb	1.212
ptc	16.6392
ptb	17.1486
wactc	1.709
wactb	9.158
ttc	1118.37
ttb	504.225
ptmix	17.0685
ttmix	600.808
mixpnd	0.473786
gravixp	6187.34
badchan	(26)
bkgnd	134
escdate	19.Nov.96
esctime	17:58:28
DADSdate	97.08.20
DADStime	17:58:28
btchdate	19.Nov.96
btchtime	17:58:28

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Fri Aug 22 13:57:49 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (f	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
160	32.74	41.79	42.73	44.73	46.9	48.12	49.52	41.16	45.59	45.6	47.17	47.41	46.7	47.3	48.51	48.37	47.92	48.95	36.29	35.18	33.69	34.82	0	110.34
200	44.05	47.63	49.38	49.82	49.78	49.12	48.43	49.23	50.09	50.56	50.81	51.15	51.17	51.48	51.36	50.15	48.8	46.53	47.73	45.95	44.77	41.99	38.23	113.88
250	42.91	46.11	47.16	46.21	45.97	47.71	48.03	48.97	48.18	48.39	47.67	47.5	48.09	48.58	49	49.06	48.31	46.75	45.47	43.49	40.49	37.28	33.24	111.79
320	41.17	45.83	47.47	47.72	47.43	47.34	47.71	48.3	49.04	49.44	49.77	50.39	50.66	50.12	49.34	48.71	48.29	47.39	44.99	42.93	40.33	36.61	32.68	112.41
400	41.1	46.01	47.06	47.34	48.05	48.44	48.95	48.45	49.02	49.34	49.84	50.14	50.67	50.76	50.51	49.64	48.28	46.35	45.39	42.97	39.92	36.32	32.8	112.66
500	41.05	45.6	46.36	46.32	48.47	48.97	47.4	49.23	49.23	48.98	48.82	49.25	49.45	49.48	48.77	47.72	48.49	45.14	44.14	41.66	38.54	34.72	31.14	111.59
630	41.87	45.6	46.21	46.4	46.77	46.52	47.36	48.05	48.02	47.35	47.47	47.8	47.98	48.51	48.46	47.24	45.57	43.18	42.98	40.12	36.81	32.74	28.48	110.72
800	41.13	44.34	45.08	45.41	46.29	46.7	46.7	47.97	47.95	47.79	47.9	47.72	48.01	47.65	46.85	45.73	44	42.13	40.82	38.22	35.35	31.5	28.61	110.09
1000	39.61	42.74	43.95	44.85	44.91	45.2	45.53	47.17	47.48	47.28	46.66	46.1	46.18	45.98	45.37	44.32	42.77	40.57	39.94	37.45	34.17	30.03	25.31	108.87
1300	39.19	41.63	42.1	42.74	43.35	43.5	43.92	45.91	45.46	44.44	44.07	44.42	44.46	44.3	43.61	42.39	40.59	38.48	37.99	35.21	32.01	28.07	23.28	107.01
1600	38.18	39.75	40.85	41.8	42.18	42.33	42.97	44.2	43.61	42.88	42.57	42.49	42.86	42.38	41.37	40.14	38.39	36.3	36.08	33.23	29.85	26.03	21.72	105.34
2000	37.78	39.35	40.04	40.91	41.37	41.63	41.99	43.08	42.15	41.35	40.99	40.87	41.16	40.83	39.44	37.86	36.4	34.65	33.91	31.37	28.33	24.32	19.08	104.01
2500	37.22	37.8	38.18	39.1	39.34	39.48	39.82	41.8	40.91	40.23	39.65	39.19	38.7	37.92	36.77	35.54	34	32.19	32.63	30.06	26.7	22.2	0.34	102.18
3200	33.49	34.29	34.97	35.84	36.01	36.45	37.31	39.39	38.67	38.03	37.54	36.99	36.3	35.3	34.21	32.87	31.1	28.99	29.93	26.99	22.9	9.17	0	99.52
4000	27.07	29.09	30.35	31.37	31.2	31.98	33.02	36.88	36.09	35.37	34.61	33.6	32.91	31.9	30.4	28.58	26.44	23.5	26.41	22.47	11.62	0	0	95.92
5000	15.88	18.51	21.37	23.38	22.98	23.53	25.65	32.89	31.75	30.75	29.79	29.98	28.08	26.51	23.75	20.02	11.48	0	18.08	0	0	0	0	90.23
6300	0	0	0	0	0	0	0	24.99	23.6	21.64	19.3	16.98	12.39	0	0	0	0	0	0	0	0	0	0	79.9
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	51.82	55.47	58.58	56.92	57.28	57.58	57.99	58.4	58.73	58.59	58.89	58.88	59.06	59.1	58.7	58.03	56.92	55.64	53.96	51.78	49.33	46.2	41.98	121.59
PNL	61.41	63.92	64.81	65.51	65.91	66.21	66.66	67	66.68	66.13	65.87	65.78	65.88	65.57	64.98	64.01	62.52	61	59.03	56.19	52.62	47.81	41.88	65.08

NASA Lewis Allison AST Jet Noise Test 1996

rdg 147
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld BASE
anoz 41.226
amuc 35.02
amixb 78.39
scale 4
vid 821.19
m01 0.30341
pamb 14.1473
tamb 496.786
rhumid 67.6
winds1 0
nprc 1.387
nprb 1.435
ptc 19.6223
ptb 20.3014
wactc 2.698
wactb 13.352
ttc 1177.98
ttb 503.195
ptmix 20.1872
ttmix 616.826
mixpnd 0.67451
grsvixp 13180.1
badchan (26)
bkgnd 134
escdate 19.Nov.96
esctime 18:09:15
DADSdate 97.08.25
DADStime 18:09:15
blchdate 19.Nov.96
blchtime 18:09:15
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 09:48:23 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	63.35	62.93	63.04	63.6	64.42	65.34	66.25	67.09	67.8	68.34	68.68	68.81	68.73	68.44	67.96	67.53	67.93	69	70.05	70.61	70.91	72.33	110.26
130	65.49	66.69	67.24	67.88	67.89	66.92	66.5	66.83	67.81	68.65	69.61	69.83	69.4	69.04	69.16	69.64	71.02	72.2	72.95	73.16	72.87	72.63	73.7	112.36
160	65.39	69.88	68.89	69.6	68.73	68.71	67.65	68.03	68.97	70.18	71.17	71.56	71.31	70.93	70.66	70.78	71.57	72.39	73.29	73.83	74.03	74.17	74.61	113.67
200	68.24	69.85	70.65	70.45	70.18	70.63	70.64	70.32	70.54	70.33	70.28	70.72	71.32	71.73	72.57	73.59	73.77	73.58	73.4	73.55	73.95	74.31	74.65	114.55
250	70.94	72.98	73.6	73.75	73.33	72.86	72.8	72.98	73.71	74.42	74.34	75.38	75.62	76.08	76.99	77.77	78.09	76.16	77.79	78.74	75.95	76.01	76.32	118.17
320	72.61	75.27	75.25	74.56	74.18	74.67	75.2	75.01	75.19	75.42	75.95	76.12	75.73	77.08	78.04	77.55	77.11	77.12	76.78	75.28	74.31	74.85	74.17	118.72
400	72.07	74.31	75.29	74.64	74.64	76.1	76.4	75.92	76.82	77.49	77.65	77.67	77.56	77.9	78.72	79.28	78.76	77.45	76.21	75.76	75.38	74.69	74.4	119.73
500	73.75	76.57	76.94	76.83	77.09	77.69	78.86	78.53	76.59	76.93	78.15	78.43	78.78	79.08	79.45	79.64	79.08	78.55	77.91	76.71	75.68	75.1	74.48	120.82
630	74.28	77.18	76.61	77.28	77.64	78.18	78.26	78.39	78.04	78.04	78.23	78.85	79.28	79.47	79.64	79.59	78.95	77.9	76.98	76.15	75.52	74.77	74.58	121.03
800	76.43	78.74	77.94	78.78	78.42	79.59	79.5	79.94	80.36	80.41	80.2	80.92	80.8	80.99	81.72	81.77	80.15	78.56	77.56	76.63	75.57	74.58	74.59	122.63
1000	77.49	79.88	79.35	80.14	80.01	80.66	80.21	80.26	80.35	80.37	80.61	80.88	80.99	81.42	82.12	82.09	80.53	78.98	77.69	76.21	75.04	74.68	75.08	123.14
1300	78.75	81.02	80.75	82.08	80.98	81.74	81.75	81.62	81.35	81.23	80.96	81.48	81.57	81.84	82.86	83.24	81.6	79.72	78.43	77.55	76.8	76.23	76.29	124.16
1600	79.15	80.76	80.92	81.68	80.91	80.98	80.37	79.89	79.74	79.82	79.76	80.25	80.93	81.21	81.79	82.15	80.65	78.89	77.67	76.82	76.05	75.33	75.62	123.28
2000	78.27	79.46	79.67	80.4	80.15	79.77	79.49	79.39	79.19	79.11	78.87	79.87	80.55	80.65	80.9	80.75	79.3	78	77.07	76.02	75.19	74.97	75.86	122.4
2500	77.11	77.62	78.24	78.89	78.49	78.53	78.62	78.55	78.5	78.53	78.2	79.39	79.85	79.65	79.49	79.17	78.01	76.74	75.71	75.03	74.43	74.01	75.31	121.3
3200	77.07	76.8	76.91	78.02	77.31	77.62	78.11	78.26	77.67	77.68	77.35	77.9	78.13	78.41	78.35	77.73	76.84	75.74	74.76	74.06	73.56	73.42	75.06	120.3
4000	76.94	76.72	76.77	77.4	76.48	76.84	77.37	76.7	76.52	76.53	76.29	77.18	77.19	76.45	76.37	76.54	75.49	74.31	73.54	73.1	72.57	72.2	74.29	119.3
5000	76.27	76.78	76.49	77.61	74.87	76.34	76.74	75.63	75.33	75.59	75.5	75.81	75.51	75.01	75.15	75.14	73.7	72.59	72.21	71.86	71.41	71.42	74.12	118.4
6300	77.25	76.92	76.24	77.78	74.52	76.27	76.67	75.61	74.83	75.14	74.26	74.49	74.56	74	73.9	73.69	72.07	71.09	71.1	71.31	71.07	70.67	73.93	117.93
8000	77.62	77.91	76.38	78.1	74.65	76.52	76.9	75.19	74.62	74.51	74.05	74.07	74.32	73.61	73.32	73.02	70.94	70.05	70.65	71.14	70.82	70.37	73.75	117.9
10000	77.03	76.61	74.22	76.5	73.26	75.69	74.22	72.68	72.08	71.43	71.33	70.35	71.17	71.1	70.97	70.72	68.8	67.35	67.25	67.89	67.7	66.88	70.06	115.65
OASPL	88.98	90.29	90.06	90.9	90.06	90.65	90.57	90.35	90.25	90.34	90.32	90.85	91.07	91.24	91.71	91.81	90.7	89.6	88.62	88.08	87.46	87.12	87.64	133.33

NASA Lewis Allison AST Jet Noise Test 1996

rdg	147
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	821.19
m01	0.30341
pamb	14.1473
tamb	496.786
rhumid	67.6
winds1	0
nprc	1.387
nprb	1.435
ptc	19.6223
ptb	20.3014
wactc	2.696
wactb	13.352
ttc	1177.96
ttb	503.195
ptmix	20.1872
ttmix	616.626
mixprid	0.67451
gravisp	13180.1
badchan	(26)
bkgnd	134
eecdate	19.Nov.96
eectime	18:09:15
DADSdate	97.08.25
DADStime	18:09:15
bichdate	19.Nov.96
bichtime	18:09:15

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 09:48:32 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	43.13	43.94	44.93	45.95	0	0	0	0	0
80	0	42.51	43.46	43.37	46.44	46.45	47.03	46.19	44.28	42.26	47.18	45.99
100	44.45	45.7	45.42	48.08	47.33	48.02	48.38	46.72	47.02	48.57	48.39	50.17
130	42.96	49.34	48.15	48.44	50.09	50.69	50.32	47.85	48.16	50	50.19	50.38
160	46.49	48.79	49.18	50.5	51.06	51.26	52.61	50.05	50.81	50.06	50.23	51.41
200	49.3	52.28	54.1	54.28	54.02	54.75	54.74	52.54	54.23	55.25	55.37	56.48
250	49.78	52.53	52.58	52.22	52.15	54.37	55.38	54.39	54.09	53.98	54.48	53.6
320	49.15	52.75	54.21	54.51	55.05	56.37	55.42	55.01	56.2	56.64	56.09	56.53
400	49.72	53.29	54.22	54.86	55.63	56.14	56.56	55.26	55.46	55.96	56.94	57.16
500	50.34	53.92	53.4	55	55.2	56.93	57.33	56.75	56.75	56.92	56.81	57.41
630	51.56	54.68	54.79	56.38	56.61	57.83	57.52	57.85	58.04	58.12	58.09	58.3
800	52.45	56.65	55.74	57.14	57.06	58.3	58.55	57.71	57.65	57.38	57.2	57.53
1000	52.41	55.49	56.34	57.82	57.06	57.57	57.03	58.77	58.29	57.95	57.57	57.6
1300	52.04	54.24	54.77	55.84	55.44	55.57	55.15	56.3	56.03	55.97	55.53	55.66
1600	49.58	51.4	52.16	53.53	53.63	53.32	53.32	55.09	54.75	54.51	53.9	54.89
2000	46.89	48.05	49.24	50.47	50.32	50.78	51.37	53.26	53.11	52.91	52.22	52.6
2500	43.87	44.74	45.9	47.51	47.03	47.73	48.38	51.57	50.86	50.55	49.74	50.13
3200	39.49	40.75	41.65	43.51	42.1	43.49	44.33	47.79	47.43	47.22	46.8	46.69
4000	31.99	34.38	35.21	37.57	35.54	38.08	38.71	43.44	42.8	42.83	42.12	41.54
5000	21.54	24.3	25.63	29.1	26.72	29.35	30.78	37.83	36.96	36.99	35.75	35.26
6300	0	0	0	-2.71	0	4.87	3.75	29.29	28.6	27.91	26.7	25.25
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	61.41	64.38	64.91	66.01	66.04	66.94	66.97	66.97	67.01	67.08	67.05	67.34
PNL	71.91	74.45	75.05	76.29	76.14	76.66	76.67	76.56	76.44	76.38	76	76.33

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	48.62	48.14	47.37	46.3	45.17	44.74	0	0	0	0	0	107.36
80	43.92	46.79	46.53	46.73	46.71	48.54	44.82	43.49	41.58	39.19	37.5	110.17
100	49.14	47.67	48.3	47.55	46.87	48.54	48.08	46.95	45.07	42.85	41.34	112.36
130	49.71	49.44	48.72	50.51	49.64	48	48.3	47.55	45.85	43.73	42.5	113.77
160	52.05	52.89	52.32	54.37	53.9	54.13	48.34	47.08	45.72	45.1	42.6	115.91
200	55.61	56.35	56.79	55.21	54.16	52.72	52.54	50.08	48.39	45.91	43.29	116.73
250	53.94	54.99	55.34	55.26	54.51	52.36	51.36	48.31	45.63	43.89	40.63	117.84
320	56.51	56.23	56.46	56.35	54.77	53.29	50.27	48.39	46.5	43.39	40.12	119.21
400	57.01	56.38	55.92	55.23	53.88	51.9	51.31	48.78	45.92	42.89	38.98	119.18
500	57.17	57.22	57.22	56.72	54.41	52.11	49.73	47.48	44.89	41.46	37.62	119.67
630	57.97	57.79	57.86	56.99	54.41	51.62	49.8	47.15	43.67	40.05	35.98	120.44
800	57.34	57.63	57.91	57.48	54.91	51.84	49.06	45.79	42.42	38.87	34.57	120.47
1000	57.18	56.53	56.59	55.98	53.34	50.27	49.01	46.17	42.98	38.98	33.99	120.22
1300	55.91	55.47	55.1	54.05	51.4	48.55	47.37	44.43	40.9	36.51	31.2	118.43
1600	54.78	53.78	52.72	51.43	48.95	46.19	45.8	42.54	38.78	34.49	29.23	116.6
2000	52.34	51.77	50.69	48.97	46.47	43.57	43.23	40.07	36.23	31.3	25.8	114.35
2500	49.46	48.46	47.22	45.65	43.2	40.08	40.5	37.09	33.02	27.74	21.23	111.58
3200	45.7	43.91	42.89	41.58	38.51	34.98	36.78	33.23	28.47	21.78	0	107.74
4000	40.55	38.9	37.48	35.55	31.69	28	31.63	27.54	21.02	0	0	102.62
5000	34.47	32.33	30.44	28.02	22.25	12.41	24.01	16.35	0	0	0	96.01
6300	23.81	20.59	15.22	0	0	0	0	0	0	0	0	85.92
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	67.17	67.03	66.97	66.45	64.66	62.87	61.03	58.72	58.34	53.76	50.94	129.92
PNL	76.2	75.55	75.03	74.13	71.81	69.28	66.75	63.79	60.5	56.66	51.72	74.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	148
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.64
m01	0.30385
pamb	14.1448
tamb	498.214
rhumid	69.9
winds1	0
nprc	1.539
nprb	1.612
ptc	21.7688
ptb	22.8014
wactc	2.839
wactb	16.089
ttc	1322.02
ttb	503.627
ptmix	22.6419
ttmix	630.033
mixpnd	0.764359
grevisp	17898.5
badchan	(16,25,26)
bkgnd	134
eacdate	19.Nov.96
eactime	18:21:19
DADSdate	97 08 19
DADStime	18:21:19
btchdate	19.Nov.96
btchtime	18:21:19

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:14:08 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	67.93	67.6	68.5	67.16	68.58	71.63	73.51	71.79	68.98	68.38	69.15
100	70.6	71.65	72.01	72.02	71.89	71.72	71.58	71.51	71.54	71.87	71.95
130	71.27	71.82	71.11	70.88	71.79	72.41	72	71.51	71.52	72.01	72.66
160	72.35	74.2	74.73	74.49	73.98	73.74	74	74.5	74.81	75.04	75.53
200	73.01	75.06	75.78	75.87	75.77	75.7	75.71	75.72	75.87	76.14	76.47
250	75.4	76.38	76.83	76.97	76.98	76.95	76.98	77.05	77.26	77.57	77.97
320	77.23	76.87	78.55	77.86	77.72	77.88	78.19	78.57	78.89	79.39	79.78
400	77.55	79.57	79.51	79.22	79.52	80.13	80.63	80.89	81.02	81.06	81.21
500	78.18	80.77	81	80.83	81.05	81.5	81.83	81.92	81.94	82.01	82.26
630	79.78	82.12	82.35	82.21	82.31	82.39	82.71	82.85	82.97	83.2	83.6
800	81.51	83.61	83.68	83.39	83.42	83.71	83.97	84.1	84.26	84.56	85.03
1000	84.1	86.34	85.83	85.09	84.71	84.88	84.74	84.78	84.89	85.14	85.49
1300	86.75	86.45	87.7	86.6	85.83	85.42	85.23	85.25	85.39	85.68	86.09
1600	87.78	86.36	87.28	88.09	85.16	84.88	84.89	85.04	85.23	85.59	86.11
2000	86.03	86.56	85.67	85.17	85.02	85.06	85.07	84.97	85	85.13	85.42
2500	84.11	84.34	84.16	84.55	84.54	84.55	84.71	84.68	84.55	84.56	84.84
3200	82.2	82.7	82.89	83.18	83.43	83.62	84.02	83.98	83.89	83.67	83.92
4000	80.95	81.53	81.71	81.93	81.88	82.43	82.98	83.09	83.07	83.08	83.44
5000	79.82	80.93	81.02	80.95	80.45	81.06	81.85	82.07	81.9	81.85	82.08
6300	79.74	80.51	80.26	79.92	79.49	80.25	81.01	81.13	81.12	81.02	80.68
8000	79.86	81.06	79.83	79.05	78.74	79.73	80.54	80.82	80.5	80.19	79.89
10000	79.16	79.83	77.76	76.63	77.01	78.28	78.3	78.21	78.01	77.31	76.92
OASPL	95	96.18	95.7	95.21	94.95	95.09	95.32	95.38	95.42	95.54	95.85

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.49	71.82	72.7	73.13	73.25	73.26	73.69	74.9	77.02	79.38	81.69	84.65	116.16
100	72.84	73.62	74.72	75.15	75.37	75.61	76.14	77.22	79	81.17	83.51	85.99	118.04
130	73.22	73.8	74.38	75.02	75.89	77	76.12	79.18	80.28	81.47	82.87	84.59	118.34
160	76.25	76.72	77	77.28	77.68	78.25	76.87	79.49	80.09	80.71	81.49	82.45	119.57
200	77	77.99	78.59	78.66	78.5	78.32	78.39	78.83	79.61	80.38	80.95	81.56	120.22
250	78.41	78.89	79.37	79.84	80.31	80.74	81.07	81.26	81.32	81.35	81.52	81.92	121.86
320	80.04	80.3	80.64	80.99	81.26	81.44	81.46	81.31	80.97	80.52	80.11	79.81	122.62
400	81.78	82.57	83.17	83.41	83.27	82.77	81.96	81.03	80.17	79.46	79.07	79.02	124.13
500	82.73	83.14	83.44	83.57	83.47	83.07	82.34	81.41	80.43	78.55	78.93	78.73	124.9
630	84.08	84.54	84.85	84.92	84.86	84.09	83.16	82	80.8	79.72	78.99	78.85	126.04
800	85.52	85.7	85.9	85.96	85.57	84.62	83.46	82.29	81.1	80.06	79.34	79.15	127.17
1000	85.78	86.55	87.21	87.26	86.62	85.35	83.85	82.46	81.3	80.39	79.82	79.63	128.21
1300	86.74	87.52	87.96	87.62	86.94	85.44	83.93	82.56	81.36	80.43	79.95	80.18	129.09
1600	86.7	87.23	87.55	87.41	86.65	85.37	83.97	82.66	81.52	80.64	80.21	80.42	128.87
2000	86.31	87.14	87.53	87.32	86.51	85.3	84.01	82.79	81.74	80.91	80.46	80.82	128.43
2500	85.55	86.1	86.33	86.09	85.3	84.06	82.75	81.59	80.86	79.95	79.59	80.13	127.49
3200	84.73	85.19	85.28	84.92	84.02	82.73	81.49	80.46	79.61	78.96	78.79	79.62	126.46
4000	83.89	84	83.83	83.35	82.43	81.2	80.07	79.17	78.4	77.84	77.75	78.88	125.33
5000	82.36	82.31	82.05	81.54	80.69	79.54	78.41	77.49	78.86	76.53	76.69	78.24	124
6300	80.54	80.35	80.09	79.6	78.8	77.76	76.83	76.11	75.61	75.4	75.83	77.81	122.8
8000	79.74	79.15	78.7	78.25	77.42	76.25	75.47	75.14	74.89	74.77	75.19	77.3	122.1
10000	75.89	75.45	75.15	74.81	74.3	73.59	72.72	72	71.78	71.82	72.2	74.31	119.65
OASPL	96.36	96.86	97.15	97.06	96.49	95.57	94.62	93.82	93.27	93.06	93.37	94.43	130.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg	148
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.64
m01	0.30365
pamb	14.1448
tamb	496.214
rhumid	69.9
winds1	0
nprc	1.539
nprb	1.612
ptc	21.7688
ptb	22.8014
wactc	2.939
wactb	16.089
ttc	1322.02
ttb	503.627
ptmix	22.6419
ttmix	630.033
mixpnd	0.764359
gravexp	17898.5
badchan	(16,25,26)
bkgnd	134
escdate	19.Nov 96
esctime	18:21:19
DADSdate	97.08.19
DADStime	18:21:19
btchdate	19.Nov.96
btchtime	18:21:19

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date. Wed Aug 20 00:14:15 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	47.05	47.18	48.44	52.24	51.14	50.2	49.54	51.75	51.6	51.31	51.46	51.43
80	47.25	50.24	50	48.44	51.84	51.36	52.26	51.44	50.04	49.11	50.82	50.56
100	50.21	50.65	49.93	51.74	51.57	53.07	52.12	51.4	51.18	52.63	53.06	55.3
130	50.03	52.81	54.43	54.19	54.38	55.34	54.97	54.31	54.02	55.22	55.05	56.1
160	51.45	54.02	54.44	55.27	55.9	56.33	56.92	55.44	55.87	55.59	56.18	56.68
200	53.61	55.09	56.24	56.55	56.87	57.31	57.61	56.62	57.27	57.01	58.76	59.32
250	54.6	56.94	57.13	56.97	57.28	58.8	59.55	57.95	58.21	58.35	58.22	58.7
320	54.39	57.66	58.17	58.65	59.02	59.77	60.21	59.98	60.41	60.29	60.19	60.11
400	54.48	57.68	58.81	59.09	59.98	60.33	60.89	60.65	60.81	60.69	61.31	61.61
500	55.6	58.54	59.32	59.72	59.99	61.08	61.64	61.19	61.39	61.77	62.23	62.4
630	56.78	59.94	60.62	60.66	61.09	61.53	62.05	61.99	62.26	62.42	62.62	62.86
800	59.15	62.33	62.59	62.22	62.16	62.16	62.06	62.22	62.26	62.5	62.5	62.7
1000	60.52	62.93	62.91	62.14	61.27	60.96	61.18	62.19	62.31	62.39	62.89	63.31
1300	60.52	61.73	60.91	60.26	60.2	60.49	60.72	61.43	61.59	61.75	61.9	62.26
1600	57.42	58.58	58.36	58.77	59.02	59.15	59.37	60.67	60.58	60.53	60.4	60.76
2000	53.51	54.59	55.28	55.94	56.45	56.92	57.28	59.41	59.14	58.87	58.86	59.11
2500	49.07	50.58	51.43	52.34	52.86	53.55	54.11	57.24	57.07	56.61	56.54	56.74
3200	43.37	45.21	46.45	47.4	47.6	48.49	49.48	54.16	54.03	53.74	53.64	53.44
4000	35.45	38.4	39.79	40.46	40.86	42.05	43.07	49.76	49.35	48.97	48.59	47.87
5000	24.69	28.28	29.81	30.98	31.56	32.96	34.52	43.36	43.35	42.92	42.07	41.1
6300	0	0	0	1.27	8.78	16.44	17.96	34.81	34.56	33.63	32.95	31.38
8000	0	0	0	0	0	0	0	18.48	17.88	13.48	3.86	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.01	70.31	70.56	70.54	70.69	71.1	71.44	71.72	71.83	71.95	72.15	72.47
PNL	79.25	81.02	80.95	81.04	81.29	81.64	81.96	82.19	82.11	82.01	82.07	82.29

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	53.62	52.73	52.07	51.86	51.32	52.81	50.16	50.43	50.31	49.94	55.03	116.81
80	50.72	52.86	52.77	52.8	52.57	54.44	52.79	52.58	52.65	52.65	52.13	117.35
100	55.02	54.46	55.46	54.98	54.5	55.09	54.3	54.08	53.7	53.15	52.23	118.84
130	56.3	56.82	56.18	56.01	54.6	53.37	54.55	53.79	52.48	50.98	49.98	119.6
160	56.57	57.24	56.7	57.49	56.86	57.1	53.79	53.08	52	51.67	49.77	120.51
200	59.06	58.31	59.38	58.64	58.19	56.92	56.06	54.86	53.71	51.44	48.83	122.04
250	59.41	59.92	60.11	59.81	58.62	57.09	55.87	54.03	52.09	49.46	46.24	122.48
320	60.62	60.56	60.35	59.81	58.66	57.08	55.16	52.8	50.36	47.59	44.77	123.24
400	61.99	61.93	61.59	60.55	59.12	57.18	54.77	52.51	49.83	46.71	43.04	123.98
500	61.97	61.66	61.09	60.42	58.76	56.84	54.86	52.13	49.16	45.78	42.03	124.27
630	63.08	63.34	62.91	61.46	59.27	56.66	54.43	51.61	48.35	44.84	40.42	125.12
800	63.24	63.33	62.65	61.14	58.6	55.86	53.85	50.86	47.71	44	39.38	125.45
1000	63.4	62.67	61.94	60.23	58	55.23	53.05	49.96	46.54	42.62	37.86	125.28
1300	62.5	62.25	61.24	59.57	57.2	54.52	52.28	49.13	45.54	41.42	36.03	124.36
1600	60.94	60.67	59.58	57.86	55.14	52.19	51.51	48.26	44.5	39.95	34.19	122.74
2000	59.08	58.5	57.18	55.07	52.34	49.41	49.11	45.68	41.78	36.88	30.51	120.8
2500	56.27	55.35	53.9	51.68	48.88	45.8	46.21	42.64	38.41	33.11	26.11	117.74
3200	52.65	51.42	49.65	47.25	44.25	40.8	42.45	38.56	33.79	27.79	17.89	114.01
4000	46.77	45.33	43.34	40.75	37.56	33.84	36.98	32.58	27.18	17.9	0	108.54
5000	39.8	38.15	35.89	32.78	28.72	23.54	29.54	23.77	9.59	0	0	101.67
6300	29.01	26.35	22.88	17.31	0	0	14.83	0	0	0	0	91.84
8000	0	0	0	0	0	0	0	0	0	0	0	73.1
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	72.64	72.55	71.98	70.89	69.26	67.64	66.01	64.23	62.57	60.92	60.26	134.98
PNL	82.26	81.92	80.98	79.39	77.22	74.88	72.3	69.36	66.07	62.46	58.46	80.68

NASA Lewis Allison AST Jet Noise Test 1996

rdg	149
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1006
m01	0.30366
pamb	14.1458
tamb	496.451
rhumid	69.93
winds1	0
nprc	1.743
nprb	1.825
ptc	24.6561
ptb	25.8161
wactc	3.429
wactb	18.66
ttc	1412.48
ttb	505.721
ptmix	25.636
ttmix	646.483
mixpnd	0.607003
grsvup	22221.5
badchan	[26]
bkgnd	134
escdate	19.Nov.96
esctime	18:32:52
DADSdate	97.06.25
DADStime	18:32:52
btchdate	19.Nov.96
btchtime	18:32:52

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 09:51:05 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	72.02	75.08	74.8	74.33	73.21	72.25	75.53	75.75	74.68	75.67	75.09	75.81
100	74.42	76.87	76.97	76.99	77.1	76.65	76.57	77.52	78.06	77.52	77.38	78.19
130	75.82	77.45	76.82	75.8	76.11	75.6	75.96	76.77	77.12	77.78	77.21	76.84
160	77.18	78.09	79.59	77.99	78.27	78.81	78.71	78.29	78.93	79.1	79.57	81.54
200	77.99	79.58	80.65	79.72	80.59	80.26	79.75	80.19	80.87	80.89	81.24	81.25
250	78.61	80.35	81.82	80.7	81.1	81.07	81.38	81.54	80.95	81.32	82.83	82.71
320	81.07	81.56	81.34	81.67	80.85	81.02	80.96	81.74	82	82.55	82.94	83.68
400	81.87	83.44	84.03	82.89	83.12	83.44	83.65	84.07	84.55	84.55	85.19	85.94
500	82.88	84.39	84.54	83.86	85.02	85.42	85.07	84.77	85.3	85.77	85.92	86.35
630	84.14	86.65	86.61	86.62	86.49	86.26	85.79	85.93	86.79	86.35	86.71	87.11
800	86.46	86.44	87.68	88.38	87.59	87.78	87.86	88.34	88.15	88.12	88.6	89.31
1000	87.96	90.46	90.12	90.24	89.67	89.7	89.83	90.02	90.19	90.31	90.89	90.99
1300	89.15	90.35	90.09	90.6	90.25	90.84	90.66	91.13	91.33	91.23	91.78	92.16
1600	90.94	91.45	91.22	92.48	90.97	91.62	92.15	92.03	91.73	92.19	92.82	93.59
2000	92.5	92.26	92.2	92.84	91.9	92.83	94.61	93	92.26	92.36	93.85	94.01
2500	90.93	90.7	90.51	90.82	90.57	90.23	90.27	90.85	91.16	91.56	92.94	93.37
3200	90.74	90.37	90.42	90.91	90.61	90.26	90.38	90.83	90.73	91.05	92.81	93.1
4000	90.62	90.44	90.86	90.99	90.35	90.21	90.65	90.37	90.49	90.84	92.26	92.53
5000	89.51	89.9	90.02	90.67	89.09	89.62	89.98	89.96	89.45	90.02	91.79	91.47
6300	89.2	89.19	89.4	90.12	88.76	88.97	89.49	89.77	89.22	89.64	90.71	90.41
8000	88.58	89.04	88.95	89.62	88.4	88.71	89.26	89.21	88.7	89.17	90.31	89.9
10000	87.31	87.48	86.1	87.18	86.76	87.01	86.21	86.5	86	86.16	87.65	86.06
OASPL	100.96	101.47	101.38	101.86	101.13	101.39	101.82	101.72	101.59	101.84	102.93	103.14

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.49	76.83	77.73	79.4	81.03	81.87	82.65	84.44	86.4	88.1	90.75	122.28
100	78.44	79.28	80.34	81.34	82.54	83.36	84.16	85.7	87.59	89.62	92.35	124.05
130	76.89	80.56	81.37	82.1	83.03	83.58	84.17	85.53	87.24	89.03	91.31	123.9
160	81.38	81.18	82.01	82.87	82.93	84.07	86.04	87.28	88.12	89.18	90.55	125.11
200	81.43	81.62	82.81	84.24	84.29	84.81	85.95	86.46	86.86	87.62	88.76	125.45
250	83.04	84.39	85.53	86.01	86.49	87.26	87.83	87.73	87.77	88.29	88.14	126.9
320	84.28	85.08	85.41	85.66	86.3	86.9	87.1	86.99	86.78	86.66	86.46	126.86
400	85.88	86.54	87.65	88.05	87.12	86.6	86.67	86.44	86.11	85.89	85.68	128.26
500	86.6	87.24	88.13	88.52	87.89	87.4	87.3	87.19	86.91	86.32	85.44	129.08
630	87.87	88.35	88.9	89.22	88.57	88.1	87.78	86.79	85.91	85.55	85.01	130.04
800	89.95	90.62	90.81	89.96	88.39	87.86	87.77	86.48	85.11	84.64	84.53	131.45
1000	91.96	92.7	92.31	91.03	89.53	88.39	87.58	86.6	85.72	85.08	84.95	133.19
1300	93.15	93.9	93.73	92.35	90.24	88.9	88.12	86.93	85.85	85.31	85.57	134.09
1600	93.99	94.7	94.5	92.95	91.17	89.77	88.96	88.59	88.34	88.11	89.27	135.11
2000	94.17	94.85	94.63	93.12	91.57	90.75	90.59	90.42	90.23	90.43	91.72	135.88
2500	93.7	94.12	93.47	91.92	90.51	88.91	87.45	86.77	86.1	85.14	85.81	134.32
3200	93.48	93.63	92.8	91.34	89.94	88.33	86.94	86.39	85.81	84.87	85.51	134.05
4000	93.21	92.75	91.83	90.54	89.34	88	86.77	85.92	84.99	84.05	85.26	133.67
5000	91.96	91.47	90.42	89.31	87.78	86.36	85.44	84.83	83.89	82.75	83.93	132.76
6300	91.05	90.59	89.31	87.99	86.55	85.23	84.32	83.85	83.06	82.07	83.71	132.04
8000	90.02	89.82	88.82	87.2	85.42	84.22	83.68	83.37	82.53	81.42	83.17	131.51
10000	88.29	88.78	88.05	84.59	83.36	81.75	80.44	80.29	79.88	78.2	79.51	128.86
OASPL	103.63	103.88	103.63	102.59	101.36	100.54	100.2	99.96	99.86	100.1	101.27	144.94

NASA Lewis Allison AST Jet Noise Test 1996

rdg	149
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1006
m01	0.30366
pamb	14.1456
tamb	496.451
rhumid	69.93
winds1	0
nprc	1.743
nprb	1.825
ptc	24.6561
ptb	25.8161
wactc	3.429
wactb	18.66
ttc	1412.48
ttb	505.721
ptmix	25.636
ttmix	646.483
mixpnd	0.807003
gravixp	22221.5
badchan	{26}
bkgnd	134
escdate	19 Nov.96
esctime	18:32:52
DADSdate	97.08.25
DADStime	18:32:52
btchdate	19 Nov.96
btchtime	18:32:52

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 09:51:18 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance, (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	51.52	53.94	53.07	57.44	56.15	55.15	53.86	55.71	57.15	56.65	56.34	56.49
80	51.2	56.1	55.92	53.79	56.36	54.98	56.53	57.45	56.73	55.34	56.95	55.95
100	54.49	55.67	56.48	55.72	55.64	57.85	57.06	56.65	56.86	57.97	57.01	56.94
130	55.44	57.64	59.25	57.64	59.54	60.25	59.15	58.11	57.67	59.06	59.41	60.86
160	55.92	58.41	59.24	58.15	59.77	60	61.32	59.91	60.8	60.06	60.44	61.05
200	57.19	58.77	60.24	60.85	60.43	60.97	60.35	61.11	60.92	61.73	63.12	63.21
250	58.74	60	60.37	60.68	61.06	62.05	62.41	61.12	61.22	61.77	61.64	62.83
320	56.67	61.03	62.36	61.33	62.8	64.06	63.74	63.16	64.01	63.87	64.09	64.4
400	58.95	61.26	62.2	63.21	63.9	64.03	63.82	63.51	64.19	64.72	64.89	64.63
500	60.26	63.39	63.55	64.44	64.4	65.02	65.51	64.25	65.19	65	65.3	65.79
630	61.64	64.99	65.48	66.42	66.27	66.55	67.04	66.23	66.17	66.26	67.16	67.68
800	62.6	65.21	65.43	66.37	66.27	67.35	67.43	67.45	67.83	67.74	67.89	67.86
1000	62.94	64.99	65.45	66.54	66.66	67.27	68.14	68.07	68.23	68.02	68.49	68.79
1300	64.18	65.61	66.49	68.76	67.25	68.76	70.62	68.38	68.36	68.86	69.86	69.89
1600	64.05	64.27	64.01	64.62	64.9	64.81	64.92	68.75	67.7	67.56	68.59	68.3
2000	60.66	61.46	61.93	63.27	63.14	63.27	63.56	65.56	65.78	66.01	67.17	67.34
2500	57.64	58.44	59.73	60.65	60.93	60.85	61.54	64.09	64.01	64.06	65.43	65.11
3200	53.15	54.3	55.42	56.78	56.28	57.06	57.57	61.42	61.42	61.6	62.66	62.27
4000	45.06	47.19	48.69	50.5	49.85	50.76	51.82	57.56	56.88	57.26	58.25	57.29
5000	34.49	37.04	39.24	41.23	40.97	41.89	43.19	52	51.46	51.53	52.19	51.19
6300	15.27	20.6	23.52	26.26	26.83	28.26	28.8	43.29	42.71	42.63	43.23	41.58
8000	0	0	0	0	0	0	0	28.69	27.83	26.96	27.05	23.07
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	72.44	74.35	74.91	75.86	75.79	76.46	77.05	77.11	77.15	77.28	77.94	78.1
PNL	84.73	85.87	86.39	87.82	87.26	88.19	89.22	88.68	88.31	88.49	89.39	89.45

distance, (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	58.9	58.13	58.02	58.13	58.46	60.01	57.91	57.86	57.34	56.37	60.86	122.89
80	55.74	58.71	58.85	58.77	58.15	59.88	59.7	59.32	59.25	59.1	58.96	123.39
100	58.43	58.16	59.95	59.64	58.67	60.27	59.3	59.31	59.44	59.27	58.91	123.85
130	60.07	60.27	60.48	62.01	61.04	60.03	61.07	61	59.93	58.71	58.29	125.11
160	60.66	61.65	62.02	63.21	62.78	63.32	60.91	59.95	58.52	58.11	56.1	125.77
200	63.13	64.27	64.32	63.41	63.32	62.47	62.66	61.06	59.96	58.26	55.09	126.65
250	62.62	62.79	64.26	64.49	63.15	61.8	61.67	60.05	58.26	55.98	53.14	126.55
320	64.62	64.99	65.24	64.86	63.46	62.12	60.83	59.07	57.15	54.56	51.56	127.58
400	65.19	65.21	65.58	65.29	63.7	62.25	60.69	59.27	57.05	53.85	49.59	127.93
500	66	66.32	65.94	64.91	62.65	61.36	60.76	58.14	55.3	52.27	48.01	128.44
630	68.12	68.31	67.61	65.77	63.46	61.22	59.94	56.98	53.47	50.13	45.81	129.67
800	68.64	69.07	68.09	66.15	63.27	60.82	59.04	56.2	53.06	49.28	44.49	130.36
1000	69.39	69.48	68.8	66.21	63.39	60.82	58.69	55.56	52.05	48.06	43.31	130.77
1300	68.56	69.82	68.73	66.17	63.53	61.26	58.48	56.17	53.32	49.77	45.42	131.56
1600	68.3	68.02	66.81	64.38	61.37	58.25	58.34	56.99	53.87	49.81	44.87	129.73
2000	67.01	66.59	64.77	62.03	59.47	56.18	54.93	51.77	47.89	42.43	36.18	127.87
2500	64.88	64.04	62.16	59.78	56.83	53.59	52.66	49.44	45.3	39.27	32.01	125.69
3200	62.18	60.59	58.12	55.47	52.51	48.71	50	46.07	40.96	34.04	26.03	122.47
4000	56.96	55.47	52.9	48.9	46.13	42.07	44.82	40.51	34.53	26.07	2.59	117.45
5000	50.87	48.86	46.05	42.29	37.88	33.21	37.55	32.47	25.03	0	0	111.07
6300	40.27	38.17	34.86	30.25	24.31	13.72	27.81	20.03	0	0	0	101.45
8000	20.09	16.73	0.42	0	0	0	0	0	0	0	0	84.91
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	78.24	78.34	77.7	76.29	74.41	73.15	72.18	70.66	69.1	67.57	66.86	140.43
PNL	89.32	89.03	87.79	85.83	83.38	81.25	79.36	76.94	73.93	70.24	66.11	87.34

100%L, 12TH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL

1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL

Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	386
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	607.29
m01	0.00442
pamb	14.2997
tamb	501.354
rhumid	80.35
winds1	0
nprc	1.168
nprb	1.212
ptc	16.702
ptb	17.3312
wactc	2.111
wactb	9.1
ttc	1119.84
ttb	507.174
ptmix	17.2128
ttmix	622.537
mixpnd	0.496443
grsvixp	6806.33
badchan	(07,26)
bkgnd	369
escdate	03.Dec.96
esctime	16:58:16
DADSdate	03.Dec.96
DADStime	16:58:16
btchdate	03.Dec.96
btchtime	16:58:16

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:14:27 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	61.15	62.17	63.12	64.03	64.89	65.7	66.48	67.23	67.96	68.67	69.36	70.05
100	61.93	63.03	64.05	64.99	65.96	66.66	67.38	68.03	68.61	69.13	69.58	69.97
130	62.37	63.24	64	64.67	65.27	65.82	66.34	66.85	67.36	67.91	68.5	69.17
160	63.93	64.88	65.76	66.55	67.26	67.97	68.61	69.23	69.81	70.35	70.85	71.33
200	66.13	66.86	67.55	68.2	68.82	69.44	70.05	70.68	71.34	72.02	72.74	73.49
250	68.17	69.12	69.86	70.41	70.83	71.17	71.48	71.81	72.2	72.7	73.34	74.13
320	68.86	70.28	71.28	72.04	72.82	73.09	73.51	73.96	74.46	75.09	75.87	76.81
400	68.27	69.91	71.17	72.07	72.72	73.34	74.02	74.69	75.25	75.73	76.17	76.57
500	68.61	70.11	71.14	71.87	72.42	72.87	73.28	73.71	74.19	74.78	75.53	76.45
630	69.01	71.08	72.46	73.24	73.66	74.05	74.55	75.08	75.49	75.89	76.39	77.08
800	69.65	71.39	72.48	73.17	73.64	74.04	74.47	74.98	75.54	76.03	76.45	76.9
1000	69.97	71.87	72.54	72.86	73.26	73.75	74.29	74.84	75.41	76.05	76.79	77.5
1300	69.47	71.53	72.21	72.62	73.2	73.83	74.38	74.89	75.38	75.79	76.01	76.28
1600	69.14	71.45	72.05	72.31	72.85	73.53	74.21	74.77	75.28	75.75	76.08	76.43
2000	68.94	71.02	71.27	71.58	72.23	73.06	73.84	74.31	74.68	75.15	75.55	75.8
2500	68.38	70.42	70.54	71.24	72.05	72.78	73.33	73.83	73.86	74.31	74.88	75.35
3200	68.04	69.92	69.8	70.51	71.39	72.28	73.03	73.33	73.56	74.02	74.37	74.57
4000	67.03	69.18	68.85	69.76	70.48	71.23	72.08	72.57	73.02	73.36	73.45	73.59
5000	65.3	67.58	67.91	68.39	69.01	69.74	70.62	71.18	71.48	72.04	72.44	72.78
6300	63.67	65.93	66.34	66.9	67.64	68.61	69.68	70.36	70.87	71.31	71.19	71.71
8000	62.71	64.63	65.13	65.92	66.72	67.84	69.22	69.69	70.41	70.94	71.02	71.66
10000	60.3	61.34	62.29	63.91	65.36	66.48	67.37	68.03	68.54	68.69	68.86	69.29
OASPL	80.74	82.51	83.2	83.82	84.43	85.04	85.66	86.17	86.64	87.14	87.61	88.14

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.74	71.43	72.14	72.86	73.61	74.38	75.19	76.04	76.94	77.9	0	113.88
100	70.37	70.83	71.41	72.17	73.18	74.37	75.46	76.14	76.12	75.16	0	113.82
130	69.93	70.81	71.85	73.06	74.46	75.92	76.97	77.18	76.32	74.33	0	113.97
160	71.83	72.4	73.06	73.91	74.91	75.94	76.63	76.62	75.73	74.03	0	114.75
200	74.23	74.9	75.46	75.84	75.99	75.85	75.35	74.45	73.16	71.59	0	115.86
250	75.01	75.89	76.68	77.27	77.58	77.51	77.02	76.05	74.55	72.49	0	116.97
320	77.76	78.48	78.91	79.1	78.88	78.21	77.24	76.13	75.03	74.11	0	118.78
400	76.94	77.26	77.47	77.52	77.3	76.78	75.96	74.87	73.53	72.01	0	118.15
500	77.42	76.25	76.78	76.87	76.38	77.3	75.66	74.34	72.84	71.32	0	118.33
630	77.6	76.4	76.66	76.41	77.47	75.96	74.35	73.11	71.75	70.72	0	118.59
800	77.54	78.29	76.6	76.47	77.45	75.95	74.3	72.84	71.42	70.13	0	118.57
1000	78.06	78.56	76.56	78.03	76.97	75.55	74.02	72.43	70.78	69.07	0	118.55
1300	77.07	77.89	78.02	77.15	75.93	74.67	73.36	71.84	69.96	68.03	0	117.98
1600	77.02	77.64	77.72	76.8	75.41	74.06	72.72	71.16	69.24	66.96	0	117.78
2000	76.37	76.73	76.87	76.09	74.69	73.44	71.84	70.09	67.99	65.67	0	117.13
2500	75.72	76.18	76.21	75	73.49	72.01	70.39	68.69	66.7	64.38	0	116.42
3200	74.92	75.18	75.15	73.94	72.41	70.76	69.03	67.09	64.85	62.45	0	115.7
4000	73.74	73.79	73.77	72.87	71.23	69.33	67.65	65.78	63.37	60.83	0	114.7
5000	72.74	72.37	72.01	70.9	69.56	67.94	66.17	63.98	61.22	58.88	0	113.34
6300	72.07	71.84	71.16	69.64	68.2	66.43	64.42	61.29	58.32	56.58	0	112.33
8000	71.84	71.17	70.37	69.08	67.69	65.74	63.06	59.51	56.33	54.76	0	111.79
10000	69.57	69.52	69.2	67.72	65.72	63.39	60.05	56.55	53.35	51.25	0	109.86
OASPL	88.73	89.26	89.52	89.25	88.71	88.06	87.4	86.66	85.7	84.57	0	129.83

NASA Lewis Allison AST Jet Noise Test 1996

rdg	386
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	607.29
m01	0.00442
pamb	14.2997
tamb	501.354
rhumid	80.35
winds1	0
nprc	1.168
nprb	1.212
ptc	16.702
ptb	17.3312
wactc	2.111
wactb	9.1
ttc	1119.84
ttb	507.174
ptmix	17.2128
ttmix	622.537
mixpnd	0.496443
gravhp	6808.33
badchan	(07,26)
bkgnd	369
escdate	03.Dec.96
esctime	16:58:16
DADSdate	03.Dec.96
DADStime	16:58:16
btchdate	03.Dec.96
btchtime	16:58:16

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:14:34 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	39.36	40.87	42.22	43.44	44.54	45.53	46.41	47.19	47.88	48.49	49.02	49.47	49.84	50.14	50.35	50.49	50.54	50.48	50.29	49.94	49.36	48.45	0	113.81
100	40.11	41.69	43.11	44.38	45.49	46.45	47.28	47.96	48.51	48.92	49.2	49.38	49.44	49.5	49.59	49.76	50.07	50.41	50.5	49.97	48.46	45.62	0	113.51
130	40.5	41.86	43.02	44.01	44.86	45.57	46.19	46.73	47.22	47.86	48.09	48.51	48.95	49.43	49.97	50.59	51.29	51.9	51.93	50.91	48.55	44.86	0	113.79
160	41.97	43.43	44.7	45.82	46.79	47.65	48.4	49.04	49.59	50.03	50.36	50.8	50.78	50.94	51.13	51.36	51.64	51.81	51.48	50.23	47.81	44.15	0	114.48
200	44.05	45.28	46.38	47.35	48.23	49.01	49.73	50.4	51.02	51.8	52.15	52.65	53.06	53.32	53.37	53.14	52.56	51.55	50.01	47.84	44.98	41.42	0	115.3
250	45.9	47.37	48.52	49.41	50.08	50.6	51.02	51.38	51.75	52.14	52.6	53.14	53.68	54.14	54.41	54.39	53.94	52.98	51.41	49.13	45.99	41.82	0	116.4
320	46.45	48.29	49.73	50.63	51.67	52.32	52.88	53.34	53.82	54.33	54.93	55.62	56.22	56.51	56.42	55.96	54.98	53.38	51.29	48.82	46.01	42.88	0	117.99
400	45.42	47.8	49.31	50.55	51.47	52.27	53.06	53.77	54.3	54.88	54.91	55.05	55.06	54.93	54.8	53.98	52.96	51.48	49.49	46.96	43.81	39.91	0	117.01
500	45.31	47.38	48.88	49.98	50.81	51.46	51.98	52.44	52.88	53.38	53.91	54.55	55.15	55.52	55.48	54.87	53.53	51.43	48.75	45.69	42.23	38.1	0	116.75
630	45.19	47.87	49.75	50.92	51.63	52.23	52.85	53.41	53.8	54.08	54.38	54.76	55.11	55.21	54.86	53.86	52.03	49.43	46.48	43.57	40.07	36.18	0	116.61
800	45.29	47.67	49.27	50.38	51.14	51.78	52.32	52.88	53.4	53.77	53.97	54.12	54.35	54.58	54.45	53.33	51.35	48.7	45.63	42.39	38.67	34.27	0	116.08
1000	45.05	47.62	48.83	49.57	50.3	51.02	51.89	52.28	52.8	53.31	53.83	54.21	54.37	54.31	53.64	52.29	50.23	47.59	44.54	41.03	36.88	31.75	0	115.53
1300	43.96	46.73	47.96	48.81	49.73	50.6	51.28	51.84	52.29	52.55	52.53	52.48	52.8	53.06	52.49	50.78	48.48	45.92	42.99	39.43	34.88	29.26	0	114.42
1600	42.93	45.98	47.18	47.91	48.8	49.73	50.56	51.17	51.63	51.98	52.05	52.05	52.16	52.18	51.52	49.67	47.16	44.44	41.34	37.57	32.75	26.48	0	113.62
2000	41.86	44.72	45.62	46.43	47.46	48.54	49.48	50.01	50.33	50.65	50.78	50.76	50.72	50.46	49.79	48.03	45.62	42.66	39.18	35.04	29.78	23.03	0	112.19
2500	40.1	43	43.81	45.04	46.26	47.27	48	48.35	48.52	48.82	49.12	49.18	49	48.76	47.92	45.64	42.81	39.69	35.98	31.6	26.05	17.7	0	110.42
3200	37.95	40.8	41.47	42.78	44.11	45.32	46.26	46.6	46.76	47.04	47.1	46.84	46.59	46.07	45.08	42.68	39.65	36.12	31.99	26.98	20.08	0	0	108.17
4000	34.2	37.46	38.03	39.69	40.94	42.03	43.09	43.66	44.05	44.15	43.86	43.47	42.95	42.12	40.98	38.67	35.27	31.14	26.62	20.2	0	0	0	104.81
5000	28.38	32.01	33.38	34.74	35.96	37.11	38.23	38.88	39.09	39.38	39.37	39.02	38.12	36.63	34.93	32.18	28.69	24.09	15.96	0	0	0	0	98.8
6300	16.75	23.4	25.6	27.44	28.99	30.5	31.87	32.64	33.02	33.1	32.44	32.13	31.43	29.88	27.46	23.04	15.68	0	0	0	0	0	0	93
8000	0	0	0	5.33	14.85	19.27	21.83	23.01	23.55	23.74	22.87	22.38	20.3	15.91	-2.92	0	0	0	0	0	0	0	0	82.25
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	58.04	58.23	59.6	60.63	61.5	62.26	62.93	63.49	63.95	64.35	64.68	65	65.29	65.44	65.24	64.58	63.53	62.27	60.83	59.08	56.71	53.73	0	127.38
PNL	63.96	66.72	67.85	69.03	70.13	71.1	71.9	72.41	72.74	73.08	73.32	73.44	73.43	73.27	72.65	71.18	69.19	67.01	64.54	61.51	57.68	52.84	0	71.8

NASA Lewis Allison AST Jet Noise Test 1996

rdg	387
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
ambtc	35.02
ambtb	78.39
scale	4
vid	831.35
m01	0.00212
pamb	14.3017
tamb	501.069
rhumid	81.72
winds1	0
nprc	1.39
nprb	1.444
ptc	19.8794
ptb	20.6517
wactc	2.863
wactb	13.056
ttc	1184.76
ttb	506.524
ptmix	20.5128
ttmix	628.504
mixpnd	0.676372
grevbp	13234.3
badchan	{07.26}
bkgnd	369
eacdate	03.Dec.96
eactime	17:05:32
DADSdate	03.Dec.96
DADStime	17:05:32
btchdate	03.Dec.96
btchtime	17:05:32

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:03:22 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance. (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency r	55	60	65	70	75	80	85	90	95	100	105	110
80	72.89	73.48	73.6	73.65	73.87	74.26	74.78	75.41	76.11	76.86	77.82	78.39
100	72.74	73.74	74.58	75.29	75.9	76.43	76.91	77.38	77.87	78.41	79.04	79.77
130	73.08	73.43	73.48	73.57	73.9	74.41	75.04	75.74	76.43	77.04	77.54	78.19
160	74.64	75.23	75.73	76.34	77.12	77.89	78.41	78.43	78.45	79.19	80.3	81.42
200	76.08	77.13	77.95	78.49	78.84	79.11	79.13	78.95	79.54	80.84	81.53	82.02
250	77.58	78.6	79.17	79.28	79.22	79.58	79.91	79.87	80.69	80.97	82.49	82.85
320	77.37	78.43	79.23	79.76	80.09	80.38	80.77	81.37	82.15	82.9	83.62	84.81
400	77.48	78.85	79.68	80.5	80.86	81.5	82.55	82.95	83.12	83.98	84.83	85.69
500	78.4	79.83	80.53	81.14	81.75	82.27	82.77	83.38	83.84	84.16	84.62	85.44
630	79.1	80.83	81.05	81.02	81.39	82.13	82.99	83.88	84.33	84.66	85.19	86
800	79.19	81.12	81.75	82.15	82.93	83.87	84.49	84.58	84.98	85.51	86.13	86.64
1000	80.42	82.02	82.26	82.38	82.86	83.63	84.31	84.88	85.44	85.84	86.35	87.1
1300	80.57	82.23	82.18	82.2	82.91	83.84	84.71	85.4	85.66	85.7	86.27	87.29
1600	80.73	82.18	82.3	82.37	82.95	83.93	85	85.77	86.17	86.39	87.03	87.72
2000	80.33	81.68	81.54	81.79	82.64	83.69	84.68	85.36	85.68	86.21	87.06	87.51
2500	79.87	81.09	81.18	81.53	82.27	83.35	84.5	85.13	85.44	85.77	86.68	87.33
3200	79	80.38	80.89	80.94	81.53	82.58	83.96	84.78	85.16	85.45	86.26	86.85
4000	77.98	79.54	80.01	80.23	80.77	82.09	83.68	83.91	84.13	84.64	85.63	85.9
5000	76.54	78.21	78.55	78.68	79.32	80.62	82.08	82.47	82.69	83.42	84.32	84.69
6300	74.75	76.57	77.04	77.27	78.01	79.34	80.87	81.49	81.89	82.43	82.88	83.17
8000	73.21	75.08	75.58	75.78	76.5	77.98	79.78	80.38	81	81.48	81.98	82.24
10000	69.73	71.37	72.07	72.95	74.53	76.13	77.05	77.41	78.03	78.41	79.09	78.88
OASPL	91.22	92.65	93	93.27	93.86	94.74	95.67	96.2	96.62	97.08	97.79	98.42

distance. (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency r	115	120	125	130	135	140	145	150	155	160	165	PWL
80	79.23	80.24	81.49	83.05	85	87.24	89.45	91.26	92.32	92.28	0	126.34
100	80.63	81.6	82.69	83.92	85.31	86.8	88.17	89.2	89.8	89.08	0	125.43
130	79.38	80.51	81.63	83.7	85.81	87.38	88.66	89.76	89.62	87.98	0	125.22
160	82.45	83.34	84	84.43	85.39	86.98	88.18	88.21	88.41	88.12	0	125.65
200	82.55	83.42	84.42	85.01	85.75	86.82	87.21	86.81	85.34	83.98	0	125.46
250	83.46	84.6	85.95	86.25	87.7	88.11	87.66	86.47	85.17	83.44	0	126.37
320	86.53	86.88	87.13	87.18	87.74	87.64	87.41	86.21	84.67	83.39	0	127.11
400	86.37	86.9	87.38	87.47	87.37	86.85	85.98	85.3	83.93	82.41	0	127.42
500	86.11	86.79	87.78	88.15	88.41	88.08	87.29	86.03	84.41	82.81	0	127.89
630	86.96	87.83	88.4	88.36	87.73	87.05	85.97	84.79	83.23	81.38	0	128
800	87	87.89	88.44	88.19	87.67	86.81	85.6	84.55	82.81	80.81	0	128.38
1000	87.7	88.44	88.74	87.66	86.93	86.11	85.08	83.72	81.86	79.84	0	128.48
1300	88.27	89.15	89.12	88.12	87.22	86.27	85.04	83.4	81.35	79.35	0	128.74
1600	88.43	89.3	89.38	87.8	87.08	86.15	84.91	83.3	81.26	78.71	0	128.95
2000	88.28	89.74	89.5	87.3	86.61	85.81	84.66	83.11	81.11	78.27	0	128.77
2500	87.5	88.54	88.69	86.62	85.77	84.83	83.49	82.09	80.29	77.42	0	128.16
3200	87.04	87.77	87.94	85.96	84.94	83.81	82.5	81.38	79.66	76.77	0	127.57
4000	85.85	86.06	86.32	84.86	83.89	82.77	81.29	80.17	78.59	75.91	0	126.53
5000	84.54	84.35	84.19	82.93	82.05	80.83	79.32	78.11	76.38	73.89	0	125.01
6300	83.08	83	82.57	81.13	80.24	78.88	77.54	75.75	73.75	71.86	0	123.6
8000	81.77	81.33	80.71	79.64	78.91	77.05	75.74	73.86	71.55	70.1	0	122.33
10000	78.22	78.33	78.24	76.88	75.7	73.71	71.71	69.99	67.51	65.66	0	119.33
OASPL	98.94	99.75	100.08	99.43	99.38	99.29	99.18	98.95	98.47	97.49	0	140.31

NASA Lewis Allison AST Jet Noise Test 1996

rdg 387
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld BASE
anoz 41.226
ambc 35.02
ambb 78.39
scale 4
vid 831.35
m01 0.00212
pamb 14.3017
tamb 501.069
rhumid 81.72
winds1 0
nprc 1.39
nprb 1.444
ptc 19.8794
ptb 20.6517
wactc 2.863
wactb 13.056
ttc 1184.76
ttb 506.524
ptmix 20.5128
ttmix 626.504
mixpnd 0.676372
grsvixp 13234.3
badchan {07,26}
bkgnd 369
eacdate 03.Dec.96
eactime 17:05:32
DADSdate 97.08.18
DADStime 17:05:32
bichdate 03.Dec.96
bichtime 17:05:32
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:03:31 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.81	1523.14	1505.73	1500	1505.73	1523.14	1552.81	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	51.11	52.19	52.7	53.06	53.53	54.08	54.71	55.37	56.04	56.69	57.27	57.8
100	50.92	52.41	53.66	54.68	55.52	56.22	56.81	57.31	57.77	58.21	58.66	59.16
130	51.21	52.05	52.5	52.91	53.48	54.18	54.9	55.62	56.28	56.79	57.12	57.52
160	52.89	53.77	54.67	55.6	56.63	57.57	58.19	58.25	58.23	58.87	59.81	60.69
200	54	55.55	56.78	57.65	58.25	58.7	58.82	58.58	59.23	60.43	60.94	61.18
250	55.31	56.85	57.63	58.29	58.47	59.01	59.45	59.45	60.23	60.4	61.74	61.84
320	54.86	56.45	57.68	58.56	59.15	59.62	60.12	60.78	61.51	62.14	62.68	63.41
400	54.82	56.54	58.01	58.98	59.61	60.44	61.59	62.03	62.17	62.91	63.57	64.16
500	56.11	57.11	58.28	59.25	60.14	60.85	61.48	62.13	62.55	62.75	63	63.54
630	55.29	57.64	58.34	58.69	59.37	60.31	61.3	62.03	62.64	62.65	63.17	63.68
800	54.83	57.4	58.54	59.34	60.44	61.59	62.34	62.49	62.84	63.24	63.64	63.85
1000	55.49	57.76	58.57	59.1	59.93	60.9	61.71	62.33	62.84	63.1	63.38	63.83
1300	55.05	57.43	57.94	58.4	59.44	60.61	61.62	62.36	62.56	62.47	62.81	63.47
1600	54.51	56.69	57.43	57.97	58.9	60.12	61.34	62.16	62.52	62.59	62.97	63.32
2000	53.24	55.36	55.9	56.65	57.67	59.18	60.3	61.05	61.33	61.71	62.3	62.36
2500	51.57	53.67	54.43	55.33	56.48	57.84	59.16	59.85	60.11	60.28	60.91	61.14
3200	48.96	51.29	52.34	53.19	54.23	55.82	57.17	58.08	58.4	58.5	58.98	59.13
4000	45.1	47.82	49.21	50.14	51.22	52.89	54.64	54.99	55.15	55.45	56.06	55.82
5000	39.58	42.6	44	44.93	46.17	47.94	49.7	50.16	50.51	50.78	51.26	51.02
6300	31.14	34.68	36.52	37.82	39.34	41.21	43.08	43.81	44.12	44.37	44.18	43.66
8000	16.62	23	25.77	27.44	29.3	31.56	33.82	34.56	35.01	35.12	34.91	34.21
10000	0	0	0	0	0	9.06	15.59	16.94	17.18	16.98	17.3	13.13
OASPL	66.19	68.15	69.09	69.8	70.61	71.56	72.42	72.95	73.36	73.7	74.21	74.62
PNL	75.18	77.36	78.29	79.11	80.13	81.35	82.52	83.14	83.48	83.75	84.3	84.56

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.33	58.94	59.71	60.68	61.93	63.34	64.55	65.15	64.74	62.83	0	126.28
100	59.69	60.26	60.87	61.51	62.2	62.84	63.21	63.02	61.94	59.54	0	125.3
130	58.41	59.12	59.75	61.23	62.63	63.35	63.62	63.5	61.85	58.28	0	125.02
160	61.39	61.88	62.05	61.88	62.12	62.85	63.03	61.81	60.48	58.24	0	125.36
200	61.39	61.85	62.34	62.32	62.33	62.53	61.88	60.21	57.17	53.81	0	125.06
250	62.12	62.85	63.69	63.36	64.07	63.58	62.06	59.56	56.63	52.79	0	125.77
320	64	64.72	64.63	64.05	63.83	62.81	61.46	58.88	55.63	52.15	0	126.29
400	64.49	64.57	64.5	63.92	63.03	61.53	59.47	57.38	54.2	50.27	0	126.24
500	63.84	64.07	64.45	64.13	63.55	62.19	60.17	57.36	53.78	49.56	0	126.25
630	64.28	64.63	64.59	63.81	62.27	60.51	58.09	55.25	51.57	46.86	0	125.92
800	63.79	64.17	64.06	63.04	61.58	59.57	57.15	54.12	50.1	44.99	0	125.81
1000	64	64.19	63.62	61.9	60.18	58.13	55.58	52.3	47.95	42.52	0	125.42
1300	64.01	64.33	63.6	61.73	59.77	57.52	54.67	50.96	46.23	40.53	0	125.12
1600	63.57	63.84	63.17	60.67	58.82	56.5	53.52	49.7	44.75	38.18	0	124.72
2000	62.62	63.45	62.42	59.23	57.32	55.02	51.99	48.04	42.84	35.53	0	123.74
2500	60.77	61.14	60.39	57.25	55.07	52.48	49.06	44.97	39.59	31.65	0	122.07
3200	58.73	58.7	57.9	54.83	52.18	49.19	45.49	41.24	35.37	26.55	0	119.91
4000	54.87	54.41	53.53	50.65	47.98	44.62	40.29	35.48	28.9	16.76	0	118.47
5000	50.02	48.66	47.11	44.26	41.22	37.08	32.31	26.48	18.56	0	0	111.33
6300	42.62	41.21	39.05	35.4	31.7	26.63	19.43	0	0	0	0	104.27
8000	32.32	29.99	26.87	22.18	15.08	0	0	0	0	0	0	94.49
10000	4.05	0	0	0	0	0	0	0	0	0	0	75.23
OASPL	74.91	75.31	75.21	74.37	73.91	73.33	72.57	71.45	69.76	67.05	0	137.55
PNL	84.47	84.84	84.24	82.13	80.68	78.68	76.58	73.78	70.25	65.93	0	82.94

NASA Lewis Allison AST Jet Noise Test 1996

rdg	388
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	959.61
m01	0.00211
pamb	14.3032
tamb	501.41
rhumid	83.08
winds1	0
nprc	1.539
nprb	1.606
ptc	22.0126
ptb	22.9709
wactc	3.141
wactb	15.216
ttc	1326.3
ttb	506.995
ptmix	22.807
ttmix	647.184
mixpnd	0.769373
gravlxp	17615.6
badchan	(07,26)
bkgnd	369
escdate	03.Dec.96
esctime	17:16:23
DADSdate	03.Dec.96
DADStime	17:16:23
btchdate	03.Dec.96
btchtime	17:16:23

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:06:03 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	75.96	77.16	78.09	78.78	79.31	79.71	80.05	80.38	80.75	81.22	81.84
100	77.17	77.79	78.37	79.25	80.47	81.41	81.81	81.67	81.97	82.38	82.85
130	78.93	79.19	79.24	79.37	79.67	80.1	80.58	80.99	81.28	81.61	82.18
160	80.52	81.16	81.51	81.76	82.02	82.3	82.59	82.9	83.24	83.84	84.18
200	81.42	82.2	82.69	82.99	83.26	83.61	84.08	84.76	85.14	84.85	85.81
250	81.58	82.43	83.09	83.42	83.47	83.61	84.06	84.67	85.1	85.3	86.02
320	82.51	83.57	84.24	84.49	84.44	84.57	84.86	85.14	86.01	86.22	86.84
400	82.13	83.24	84.23	84.98	85.5	85.99	86.49	86.89	87.28	88.13	89.11
500	83.11	84.39	85.12	85.53	85.79	86.11	86.53	87.1	87.67	87.86	88.6
630	83.31	84.68	85.54	86.16	86.67	87.11	87.4	87.71	88.32	88.77	89.52
800	84.47	85.8	86.41	86.7	86.94	87.3	87.73	88.36	89.29	89.56	90.36
1000	85.3	87.03	87.42	87.47	87.63	87.78	88.01	88.56	89.24	89.94	90.85
1300	86.11	87.44	87.31	87.01	87.2	87.67	88.22	88.77	89.37	90.22	91.13
1600	85.77	86.95	86.97	86.99	87.28	87.88	88.66	89.22	89.68	90.29	91.26
2000	85.63	86.51	86.76	87.16	87.81	88.42	88.85	89.33	89.87	90.54	91.53
2500	84.76	86.09	86.64	86.98	87.43	88.04	88.66	89.01	89.45	90.18	91.38
3200	84.03	85.38	86.12	86.53	86.83	87.33	88.1	88.6	89.22	90.05	91.02
4000	83.13	84.25	85.04	85.64	86.05	86.62	87.69	87.67	88.24	89.12	90.34
5000	81.51	83.07	84.03	84.64	84.99	85.62	86.49	86.51	86.82	87.84	89.02
6300	80.63	82.06	82.71	83.07	83.48	84.17	85.07	85.47	86.05	86.86	87.66
8000	79.53	81.1	81.7	81.94	82.32	83.11	84.16	84.53	84.97	85.97	86.81
10000	76.3	77.43	78.17	79.01	79.92	80.75	81.3	81.44	81.72	82.72	83.81
OASPL	96.26	97.5	98	98.31	98.66	99.14	99.7	100.11	100.68	101.29	102.21

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	82.66	83.71	85	86.57	88.44	90.62	93.01	95.3	97.13	98.19	98.13	0	131.98
100	83.42	84.31	85.79	87.64	89.15	91.02	93.52	95.92	97.37	97.56	96.61	0	132.06
130	83.04	84.24	85.71	87.4	89.24	91.17	93.1	94.91	96.39	96.95	95.65	0	131.44
160	84.72	85.47	87.1	89.15	91.35	93.38	94.93	95.82	95.94	95.82	95.47	0	132.25
200	86.6	87.13	88.27	89.73	91.09	92.77	93.67	93.43	92.64	92.11	91.81	0	131.24
250	87.2	87.77	88.96	90.5	92.24	93.87	94.95	94.96	93.39	92.03	90.73	0	132
320	87.78	89	90.18	91.27	92.34	93.35	93.55	93.1	91.33	90.16	89.91	0	131.75
400	89.18	90.07	91.03	91.75	92.36	92.82	92.55	91.4	90.24	89.04	88.07	0	131.97
500	89.75	90.49	91.38	92.39	92.66	93.06	92.77	91.69	90.71	89.47	88.02	0	132.27
630	90.15	90.91	91.61	92.39	92.51	92.63	92.29	91.22	89.85	88.46	87.23	0	132.41
800	91.32	91.87	92.4	92.75	92.82	92.76	92.13	91.42	90.22	88.54	86.91	0	132.95
1000	91.61	92.1	93.02	93.01	92.44	92.27	91.32	90.41	89.17	87.56	86.05	0	133.04
1300	92	93.22	93.96	93.67	92.73	92.32	91.66	90.55	89.02	87.46	85.46	0	133.41
1600	92.26	93.1	94.33	94.03	92.35	92.03	91.34	90.29	89.07	87.21	85.04	0	133.47
2000	92.3	93.06	94.31	94.01	91.82	91.78	91.25	89.95	88.26	86.43	84.81	0	133.45
2500	92.04	92.93	94.07	93.56	91.59	91.78	91.06	89.4	88.08	86.42	84.81	0	133.19
3200	91.58	92.13	93.35	93.23	91.24	90.95	90.16	88.77	87.19	85.64	84.12	0	132.65
4000	91.05	91.13	91.55	91.51	90.1	89.77	88.76	87.44	86.25	84.84	83.51	0	131.58
5000	89.57	89.61	89.96	89.87	88.34	87.86	86.91	85.86	84.44	82.53	81.8	0	130.12
6300	88.06	88.35	88.72	88.13	86.29	85.6	85.04	84.11	81.67	79.63	80.11	0	128.68
8000	87.1	87.15	87.2	86.2	84.55	84.6	83.52	82.43	79.46	77.04	78.1	0	127.46
10000	83.21	83.69	84.38	83.73	81.93	81.12	80.03	78.79	75.86	72.8	73.74	0	124.34
OASPL	102.93	103.81	104.55	104.79	104.45	105	105.3	105.38	105.29	105.05	104.26	0	145.35

NASA Lewis Allison AST Jet Noise Test 1996

rdg	388
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	BASE
anoz	41.228
amixc	35.02
amixb	78.39
scale	4
vid	959.61
m01	0.00211
pamb	14.3032
tamb	501.41
rhumid	63.08
winds1	0
nprc	1.539
nprb	1.606
ptc	22.0126
ptb	22.9709
wactc	3.141
wactb	15.216
ttc	1326.3
ttb	506.995
ptmix	22.807
ttmix	647.184
mixpnd	0.769373
grsvixp	17615.6
badchan	(07,26)
bkgnd	369
escdate	03.Dec.96
esctime	17:16:23
DADSdate	97.08.18
DADStime	17:16:23
btchdate	03.Dec.96
btchtime	17:16:23

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 10:06:12 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.18	55.86	57.18	58.2	58.96	59.53	59.97	60.34	60.68	61.04	61.5	62.08
100	55.35	56.46	57.43	58.64	60.1	61.21	61.5	61.59	61.86	62.16	62.48	62.8
130	57.06	57.8	58.26	58.71	59.26	59.85	60.43	60.88	61.13	61.36	61.74	62.36
160	58.56	59.7	60.46	61.03	61.53	61.98	62.38	62.72	63.02	63.32	63.69	63.99
200	59.34	60.62	61.52	62.15	62.67	63.2	63.77	64.49	64.82	64.43	65.02	65.76
250	59.32	60.69	61.76	62.42	62.72	63.05	63.6	64.24	64.63	64.74	65.26	66.2
320	60.01	61.59	62.69	63.28	63.49	63.81	64.21	64.52	65.36	65.47	65.9	66.59
400	59.26	60.92	62.36	63.48	64.25	64.92	65.54	65.96	66.34	67.07	67.86	67.66
500	59.82	61.67	62.88	63.66	64.19	64.7	65.23	65.85	66.36	66.45	66.99	67.85
630	59.49	61.47	62.83	63.84	64.64	65.29	65.71	66.06	66.62	66.95	67.5	67.84
800	60.11	62.07	63.2	63.9	64.45	65.03	65.59	66.29	67.15	67.29	67.86	68.52
1000	60.37	62.76	63.7	64.19	64.67	65.05	65.41	66	66.63	67.2	67.86	68.32
1300	60.59	62.64	63.07	63.21	63.73	64.44	65.12	65.72	66.27	66.96	67.66	68.2
1600	59.55	61.47	62.09	62.59	63.23	64.09	65.02	65.62	66.03	66.49	67.22	67.84
2000	58.54	60.22	61.11	62	63.03	63.9	64.49	65.02	65.51	66.01	66.75	67.15
2500	56.48	58.67	59.91	60.79	61.65	62.54	63.32	63.73	64.12	64.66	65.58	65.86
3200	53.94	56.26	57.78	58.82	59.56	60.37	61.3	61.86	62.42	63.09	63.74	63.85
4000	50.26	52.54	54.24	55.54	56.48	57.6	58.7	58.74	59.25	59.92	60.78	60.92
5000	44.52	47.45	49.48	50.92	51.92	53.01	54.12	54.18	54.38	55.18	55.98	55.87
6300	36.94	40.15	42.18	43.61	44.81	46.05	47.26	47.78	48.23	48.74	48.98	48.52
8000	25.48	29.68	32.25	33.9	35.23	36.68	38.22	38.74	39.02	39.56	39.68	39.09
10000	0	0	0	12.37	18.33	20.93	22.65	23.03	23.26	23.77	23.8	21.85
OASPL	71.12	72.89	73.9	74.61	75.24	75.87	76.44	76.95	77.46	77.82	78.45	78.92
PNL	80.29	82.32	83.52	84.38	85.16	85.96	86.7	87.15	87.61	88.09	88.84	89.17

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	62.81	63.7	64.79	66.07	67.55	69.11	70.39	71.02	70.6	68.68	0	131.89
100	63.38	64.46	65.82	66.74	67.91	69.56	70.96	71.19	69.9	67.07	0	131.92
130	63.26	64.33	65.53	66.77	67.99	69.06	69.87	70.13	69.16	65.96	0	131.22
160	64.41	65.64	67.19	68.8	70.12	70.8	70.67	69.55	67.9	65.59	0	131.94
200	65.96	66.69	67.65	68.41	69.36	69.38	68.1	68.04	63.95	61.46	0	130.82
250	66.44	67.21	68.24	69.36	70.24	70.43	69.37	66.46	63.49	60.1	0	131.36
320	67.47	68.21	68.77	69.2	69.45	68.73	67.14	64.01	61.12	58.65	0	130.87
400	68.19	68.72	68.88	68.82	68.48	67.26	64.93	62.31	59.26	55.91	0	130.76
500	68.22	68.66	69.1	68.67	68.24	66.89	64.56	62.04	56.85	54.78	0	130.62
630	68.2	68.41	68.58	67.97	67.16	65.74	63.35	60.33	56.81	52.71	0	130.29
800	68.67	68.69	68.41	67.68	66.69	64.9	62.78	59.8	55.82	51.06	0	130.32
1000	68.38	68.77	68.08	66.71	65.54	63.36	60.94	57.76	53.68	48.75	0	129.92
1300	68.97	69.14	68.14	66.34	64.88	62.91	60.19	56.6	52.33	46.61	0	129.72
1600	68.22	68.86	67.8	65.2	63.76	61.88	58.89	55.45	50.66	44.44	0	129.15
2000	67.41	68.01	66.91	63.75	62.48	60.45	57.29	53.19	48.17	41.88	0	128.36
2500	66.22	66.63	65.26	62.23	61.09	58.71	54.96	50.96	45.7	38.84	0	126.98
3200	63.79	64.24	63.15	59.95	58.15	55.5	51.71	47.05	41.32	33.85	0	124.82
4000	60.34	59.91	56.75	55.9	53.83	50.61	46.44	41.48	35.07	26.62	0	121.35
5000	55	54.3	52.87	49.65	47.05	43.33	38.76	32.92	24.49	0.78	0	116.22
6300	47.79	46.86	44.6	40.56	37.31	33.12	27.56	16.41	0	0	0	109.06
8000	37.82	35.97	32.65	27.93	23.85	14.4	0	0	0	0	0	99.4
10000	19.74	15.9	0	0	0	0	0	0	0	0	0	82.6
OASPL	79.3	79.6	79.82	79.54	79.69	79.52	78.99	78.01	76.52	73.87	0	142.72
PNL	89.43	89.82	89.1	87.27	86.5	84.91	83.02	80.19	77.22	73.43	0	88.03

NASA Lewis Allison AST Jet Noise Test 1996

rdg	389
run	1
test_prog	Allison96
test_num	5
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1017.95
m01	0.00303
pamb	14.303
tamb	500.986
rhumid	83.03
winds1	0
nprc	1.74
nprb	1.821
ptc	24.8872
ptb	26.0458
wactc	3.535
wactb	17.582
ttc	1418.25
ttb	508.333
ptmix	25.8518
ttmix	860.854
mixpnd	0.807784
gravixp	21496.1
badchan	(26)
bkgnd	389
escdate	03.Dec.96
esctime	17:23:50
DADSdate	03.Dec.96
DADStime	17:23:50
btchdate	03.Dec.96
btchtime	17:23:50

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:08:45 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.55	81.44	82.07	82.54	82.94	83.34	83.73	84.11	84.49	84.84	85.18	85.54	86.14	87.2	88.93	91.54	95.18	98.69	100.82	102.41	103.43	103.07	0	138.91
100	82.66	83.05	83.14	83.16	83.31	83.7	84.26	84.8	85.23	85.73	86.52	87.73	89.22	90.84	92.6	94.66	97.13	99.81	102.02	102.98	102.62	101.7	0	137.5
130	82.8	83.15	83.45	83.73	84.03	84.4	84.83	85.32	85.86	86.44	87.07	87.53	88.07	89.68	91.8	94.23	96.89	99.54	101.82	102.57	102.01	100.24	0	137.02
160	84.8	85.59	86.27	86.83	87.27	87.6	87.86	88.06	88.31	88.59	88.98	89.54	90.46	91.95	93.78	95.42	97.54	100.07	101.89	101.86	101.87	102.05	0	137.65
200	84.73	85.33	86.12	86.97	87.75	88.24	88.4	88.77	88.93	89.03	89.67	90.93	91.61	92.56	94.17	95.98	97.98	99.47	100.02	99.3	98.23	97.68	0	138.55
250	85.09	85.84	86.5	87.06	87.5	87.83	88.14	88.52	89.06	89.85	90.98	91.91	92.17	93.43	95.31	96.84	98.53	100.09	100.03	99.38	98.38	97.08	0	138.95
320	85.39	86.1	86.66	87.12	87.52	87.88	88.02	88.26	88.94	89.84	90.45	91.44	92.92	93.8	95.84	97.39	97.49	97.81	98.3	96.88	95.18	94.28	0	135.98
400	85.56	86.6	87.31	87.81	88.17	88.52	89.14	90.2	91.03	91.47	92.84	93.54	94.34	95.21	96.67	97.37	98.23	97.9	96.51	95.55	94.15	92.71	0	138.43
500	86.58	87.56	88.38	89	89.31	89.39	89.62	90.14	90.81	91.55	92.46	93.36	94.53	95.81	97.16	97.64	97.91	97.38	96.61	95.97	94.4	92.6	0	136.58
630	87.12	88.34	89	89.24	89.52	90.03	90.48	91.11	91.8	91.78	92.8	94.21	95.63	96.92	97.44	97.94	97.68	97.1	96.35	95.48	94.25	92.72	0	138.91
800	88.26	89.35	89.9	90.03	90.02	90.23	90.92	91.87	92.66	93.33	94.39	95.15	96.09	97.15	97.45	97.33	97.31	96.41	95.43	94.43	93.08	91.46	0	137.05
1000	89.06	90.12	90.52	90.67	90.74	90.88	91.18	91.62	92.45	93.77	94.82	95.86	97.16	97.89	97.31	97.11	96.91	96.14	95.14	94.08	92.61	90.56	0	137.27
1300	89.46	90.59	91.04	91.11	91.09	91.27	91.75	92.53	93.37	94.07	95.03	96.42	97.99	98.72	97.39	96.95	96.8	95.9	94.93	93.89	92.14	90.19	0	137.61
1600	89.82	91.07	91.67	91.94	92.01	92.09	92.3	92.95	94.13	94.62	95.79	97.81	99.4	99.71	98.01	97.07	96.51	95.88	94.56	93.13	91.64	89.53	0	138.26
2000	90.02	91.35	92.04	92.26	92.23	92.38	92.81	93.51	94.24	94.91	96.26	97.76	100.11	100.77	97.93	97.01	96.46	95.59	94.38	93.05	91.49	89.15	0	138.59
2500	89.78	91.13	92.02	92.55	92.74	92.46	92.86	93.55	94.45	95.22	96.45	98.31	100.1	100.38	98.2	96.87	96.2	95.04	93.79	92.83	91.43	89.03	0	138.8
3200	89.25	90.86	92.09	92.82	92.91	92.7	93.06	93.56	94.23	95.04	96.4	98.01	99.57	99.96	97.95	96.45	95.68	94.5	93.25	92.2	90.81	88.36	0	138.33
4000	88.84	90.49	91.73	92.53	92.57	92.54	92.99	93.29	93.87	94.64	96.01	97.53	98.49	98.67	97.45	95.91	94.98	93.44	92.26	91.72	90.22	87.96	0	137.68
5000	87.76	89.71	90.94	91.55	91.51	91.64	92.48	92.81	93.06	93.82	95.32	96.8	97.39	97.29	96.08	94.77	93.88	92.48	91.41	90.32	88.5	86.51	0	136.7
6300	86.5	88.59	90.07	90.84	90.73	90.76	91.52	92.22	92.75	93.18	94.25	95.8	96.62	96.35	95.05	93.51	92.37	90.68	89.83	88.47	86.24	84.86	0	135.74
8000	85.06	87.27	88.79	89.57	89.62	89.65	90.94	91.54	91.96	92.52	93.85	95.37	95.87	95.35	93.88	92.61	91.6	89.43	88.51	86.55	84	82.96	0	134.9
10000	81.67	83.48	85.27	86.8	87.52	87.68	88.11	88.75	89.33	89.74	91.28	92.24	92.93	92.98	92.06	90.49	88.78	88.33	84.7	83.36	80.97	79.19	0	132.23
OASPL	100.6	101.9	102.75	103.24	103.38	103.5	103.97	104.54	105.21	105.87	107.04	108.43	109.73	110.26	109.56	109.51	109.92	110.43	110.91	110.88	110.41	109.51	0	150.49

NASA Lewis Allison AST Jet Noise Test 1996

rdg	389
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nalrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1017.95
m01	0.00303
pamb	14.303
tamb	500.986
rhumid	83.03
winds1	0
nprc	1.74
nprb	1.821
ptc	24.8872
ptb	26.0458
wactc	3.535
wactb	17.582
ttc	1418.25
ttb	508.333
ptmix	25.8518
ttmix	660.654
mixpnd	0.807784
grswxp	21496.1
badchan	(26)
bkgnd	369
escdate	03.Dec.96
esctime	17:23:50
DADSdate	97.08.18
DADStime	17:23:50
btchdate	03.Dec.96
btchtime	17:23:50

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 10:08:54 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.78	60.14	61.17	61.96	62.6	63.18	63.65	64.07	64.41	64.67	64.84	64.96	65.24	65.9	67.15	69.17	72.11	74.79	75.92	76.3	75.84	73.82	0	136.82
100	60.84	61.71	62.21	62.55	62.93	63.49	64.15	64.73	65.12	65.52	66.15	67.11	68.28	69.51	70.78	72.25	74.02	75.86	77.06	76.79	74.96	72.18	0	137.38
130	60.92	61.77	62.47	63.06	63.61	64.15	64.69	65.21	65.71	66.19	66.65	66.87	67.09	68.3	69.92	71.76	73.72	75.52	76.58	76.31	74.25	70.57	0	136.61
160	62.85	64.13	65.21	66.1	66.78	67.28	67.64	67.9	68.09	68.27	68.48	68.81	69.43	70.49	71.83	72.67	74.27	75.96	76.75	75.28	73.95	72.17	0	137.33
200	62.66	63.76	64.96	66.13	67.16	67.83	68.09	68.49	68.62	68.62	69.08	70.1	70.45	70.99	72.1	73.29	74.56	75.19	74.68	72.68	70.04	67.5	0	136.09
250	62.83	64.1	65.17	66.06	66.76	67.27	67.68	68.09	68.6	69.28	70.23	70.91	70.84	71.88	73.04	73.96	74.91	75.57	74.44	72.47	69.83	66.43	0	136.28
320	62.88	64.13	65.12	65.92	66.58	67.12	67.37	67.65	68.29	69.09	69.51	70.24	71.38	71.83	73.34	74.25	73.59	72.98	72.34	69.56	66.17	63.07	0	135.06
400	62.71	64.28	65.44	66.29	66.92	67.47	68.2	69.29	70.06	70.41	71.59	72.03	72.47	72.89	73.8	73.84	73.9	72.61	70.04	67.64	64.45	60.61	0	135.19
500	63.26	64.83	66.12	67.11	67.7	67.97	68.33	68.88	69.52	70.13	70.84	71.47	72.27	73.09	73.87	73.66	73.09	71.53	69.49	67.3	63.77	59.36	0	134.88
630	63.31	65.13	66.29	66.92	67.5	68.2	68.78	69.46	69.91	69.96	70.76	71.89	72.93	73.72	73.64	73.4	72.23	70.56	68.48	65.93	62.59	58.22	0	134.71
800	63.91	65.62	66.69	67.22	67.51	67.95	68.77	69.77	70.52	71.06	71.91	72.35	72.68	73.43	73.1	72.2	71.23	69.15	66.77	64	60.34	55.61	0	134.38
1000	64.11	65.85	66.8	67.39	67.79	68.14	68.56	69.06	69.85	71.03	71.86	72.58	73.46	73.64	72.4	71.37	70.17	68.17	65.66	62.69	58.73	53.27	0	134.09
1300	63.95	65.78	66.8	67.31	67.62	68.03	68.66	69.46	70.28	70.83	71.55	72.6	73.73	73.8	71.86	70.56	69.35	67.14	64.55	61.48	57	51.34	0	133.89
1600	63.6	65.6	66.79	67.52	67.95	68.29	68.64	69.35	70.49	70.83	71.73	73.39	74.53	74.22	71.8	69.94	68.25	66.22	63.15	59.5	55.1	48.96	0	133.96
2000	62.94	65.06	66.38	67.09	67.44	67.86	68.46	69.21	69.88	70.4	71.49	72.6	74.44	74.47	70.83	68.93	67.16	64.79	61.67	57.96	53.2	46.4	0	133.51
2500	61.47	63.7	65.28	66.35	66.94	66.96	67.52	68.26	69.1	69.7	70.66	72.12	73.37	72.94	69.91	67.51	65.48	62.67	59.35	55.72	50.75	43.3	0	132.45
3200	59.16	61.73	63.71	65.05	65.6	65.71	66.24	66.82	67.44	68.06	69.1	70.26	71.22	70.87	67.83	65.13	62.88	59.83	56.22	52.07	46.49	38.14	0	130.57
4000	55.98	58.73	60.88	62.4	63	63.34	63.97	64.33	64.85	65.42	66.4	67.4	67.67	67.02	64.64	61.86	58.96	55.25	51.28	47	40.56	31.13	0	127.5
5000	50.7	54.01	56.33	57.79	58.38	58.94	60.05	60.46	60.63	61.12	62.23	63.11	62.79	61.58	59.01	56.02	52.97	48.92	44.36	38.66	30.66	17.57	0	122.82
6300	42.87	46.69	49.53	51.36	52.08	52.62	53.62	54.43	54.86	54.99	55.49	56.29	56.07	54.45	51.43	47.63	43.75	38.62	33.29	25.81	4.33	0	0	116.12
8000	31.44	35.96	39.35	41.59	42.57	43.45	44.95	45.66	45.99	46.13	46.66	47.18	46.38	44.05	40.23	35.97	31.34	24.08	12.66	0	0	0	0	106.72
10000	0	14.72	21.73	25.49	27.68	28.94	30.27	31.23	31.56	31.37	31.95	31.55	30.16	27.34	22.53	13.15	0	0	0	0	0	0	0	91.39
OASPL	74.98	76.64	77.81	78.62	79.16	79.59	80.1	80.73	81.37	81.87	82.68	83.57	84.47	84.76	84.34	84.34	84.57	84.87	84.76	83.71	81.9	79.19	0	147.6
PNL	84.85	86.94	88.44	89.46	90.03	90.32	90.9	91.57	92.27	92.61	93.69	94.83	95.79	95.66	93.85	92.47	91.35	90.02	88.46	86.09	83.2	79.57	0	93.29

NASA Lewis Allison AST Jet Noise Test 1996

rdg	385
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	589.31
m01	0.19925
pamb	14.2612
tamb	500.908
rhumid	81.49
winds1	0
nprc	1.173
nprb	1.219
ptc	16.7264
ptb	17.3844
wactc	1.886
wactb	9.124
ttc	1125.96
ttb	507.876
ptmix	17.2719
ttmix	613.846
mixpnd	0.485143
grsvhp	6489.48
badchan	(07,26)
bkgnd	373
escdate	03.Dec.96
esctime	16:46:54
DADSdate	03.Dec.96
DADStime	16:46:54
blchdate	03.Dec.96
blchtime	16:46:54

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:11.07 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	57.27	58.65	58.65	60.36	60.69	61.3	61.65	61.99	62.35	62.76	63.26	63.84	64.43	64.98	65.39	65.66	65.82	65.81	65.69	65.53	65.51	65.97	108.06
100	41.1	57.34	57.74	59.07	60.04	60.49	60.22	61.38	63.17	62.29	62.69	63.18	62.84	63.39	64.47	64.23	63.41	63.51	63.35	63.36	63.85	64.67	65.24	105.18
130	57.59	58.85	59.47	59.78	59.99	60.27	60.72	61.22	61.57	61.75	61.97	62.41	63.15	64.04	64.95	65.77	66.41	66.8	66.93	66.79	66.46	66.06	65.86	106.24
160	59.25	60.2	60.93	61.5	61.96	62.36	62.71	63.05	63.38	63.74	64.12	64.54	64.99	65.47	65.94	66.37	66.74	67.02	67.17	67.18	67.11	67.05	65.93	107.41
200	62.21	63.66	64.57	64.95	65.27	65.83	65.89	66.01	66.35	66.51	66.58	66.79	67.22	68.19	69.18	69.81	69.45	68.91	68.29	67.87	67.5	66.73	65.65	109.88
250	66.76	68.66	69.21	69.21	68.98	68.72	68.56	68.56	68.78	69.21	69.83	70.53	71.2	71.84	72.42	72.91	73.27	73.44	73.32	72.85	72.01	70.94	69.93	113.61
320	70.17	71.91	72.55	72.66	72.6	72.56	72.63	72.85	73.21	73.62	74.07	74.6	75.16	75.63	75.92	75.93	75.82	75	74.11	72.99	71.71	70.42	68.55	116.74
400	67.13	69.17	70.37	70.99	71.27	71.43	71.55	71.65	71.79	72.06	72.49	73	73.48	73.84	74.01	73.92	73.54	72.88	71.98	70.82	69.53	68.23	66.87	115
500	67.62	69.55	70.18	70.34	70.44	70.55	70.71	70.94	71.28	71.74	72.3	72.91	73.52	74.09	74.6	74.93	74.94	74.45	73.42	72.01	70.43	68.89	67.64	115.19
630	68.37	70.28	70.98	71.26	71.49	71.72	71.97	72.27	72.63	73.05	73.54	74.08	74.63	75.11	75.45	75.49	75.08	74.15	72.71	71.04	69.4	68.08	67.56	115.98
800	69.02	70.56	70.68	70.55	70.87	71.48	72.15	72.67	72.97	73.17	73.36	73.59	73.9	74.25	74.57	74.68	74.38	73.55	72.19	70.56	68.95	67.57	66.73	115.56
1000	69.68	71.03	71.18	71.24	71.57	72.04	72.55	72.99	73.34	73.62	73.8	73.93	74.11	74.22	74.45	74.59	74.23	73.21	71.72	69.89	68.14	66.9	66.43	115.76
1300	69.59	70.87	71.14	71.08	71.32	71.77	72.3	72.79	73.09	73.21	73.3	73.49	73.78	73.93	74.06	74.02	73.51	72.36	70.74	69	67.4	66.14	65.56	115.38
1600	68.84	70.03	70.6	70.98	71.36	71.71	72.01	72.35	72.6	72.75	73.04	73.43	73.6	73.71	74	73.8	72.82	71.44	69.92	68.28	66.63	65.39	64.93	115.04
2000	68.81	70.18	70.7	70.89	71.3	71.62	71.94	72.18	72.31	72.32	72.34	72.56	72.8	72.55	72.91	72.83	71.72	70.29	68.78	67.31	65.69	64.79	64.24	114.48
2500	68.45	69.64	70.25	70.72	71.18	71.58	71.82	72.05	72.14	71.96	71.9	72.06	72.2	71.92	72.12	71.92	70.78	69.18	67.47	65.83	64.34	63.29	62.94	114.01
3200	68.43	69.27	69.95	70.53	70.93	71.34	71.72	71.81	71.71	71.41	71.24	71.52	71.63	71.18	71.17	70.94	69.77	67.99	66.38	64.86	63.38	62.27	61.9	113.5
4000	67.27	68.34	69.24	69.93	70.13	70.42	70.91	70.98	70.86	70.59	70.48	70.61	70.71	69.57	69.63	69.65	68.43	66.74	64.95	63.26	61.8	60.84	60.61	112.53
5000	65.63	66.96	68.1	68.82	68.88	68.99	69.46	69.63	69.68	69.5	69.47	69.87	69.57	68.58	68.48	68	66.5	64.96	63.44	61.64	60.39	59.55	59.48	111.27
6300	64.42	65.74	67.06	67.73	67.63	67.89	68.68	68.86	68.97	68.89	68.65	68.85	69.05	68.31	68.12	67.41	65.66	63.91	62.37	60.74	59.24	58.36	58.12	110.47
8000	63.54	65.15	66.53	67.1	66.93	67.53	68.72	68.53	68.58	68.57	68.5	68.69	69	68.15	67.73	66.86	65.17	63.42	61.79	60.14	58.68	57.75	57.29	110.15
10000	61.86	62.77	64.15	65.44	66.06	66.59	67	66.79	66.62	66.58	66.4	66.24	66.78	66.37	66.32	65.97	64.18	61.64	59.79	58.11	56.32	55.12	54.66	108.4
OASPL	80.3	81.81	82.43	82.75	82.97	83.27	83.63	83.88	84.09	84.22	84.42	84.78	85.1	85.23	85.51	85.54	85.06	84.23	83.15	81.94	80.74	79.7	78.9	128.78

NASA Lewis Allison AST Jet Noise Test 1996

rdg	385
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	589.31
m01	0.18925
pamb	14.2612
tamb	500.906
rhumid	81.49
winds1	0
nprc	1.173
nprb	1.219
ptc	16.7284
ptb	17.3844
wactc	1.888
wactb	9.124
ttc	1125.96
ttb	507.876
ptmix	17.2719
ttmix	613.848
mixpnd	0.485143
grsvup	6489.48
badchan	{07,26}
bkgnd	373
escdate	03.Dec.96
esctime	16:46:54
DADSdate	03.Dec.96
DADStime	16:46:54
btchdate	03.Dec.96
btchtime	16:46:54

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:11:19 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	30.99	36.09	36.23	37.3	38.2	38.6	40.64	41.61	40.12	43.08	42.68	42.3
100	32.61	35.62	38.67	39.25	39.67	39.18	40.91	41.31	42.21	40.27	39.98	42.61
130	37.42	38.55	39.11	40.91	41.08	40.94	42.63	41.1	41.21	42.22	41.72	41.45
160	37.26	40.92	42	42.62	44.32	44.5	45.69	42.86	42.77	43.7	43.86	43.89
200	42.81	44.77	46.61	46.5	47.42	47.14	48.29	45.73	45.74	47.12	47.18	48.48
250	47.1	49.38	51.18	52.05	52.09	52.31	52.29	48.14	49.45	49.32	50.84	50.99
320	45.95	47.92	49.01	49.45	49.88	50.27	50.37	52.23	52.4	52.6	52.28	52.36
400	43.76	46.52	47.65	48.42	48.8	48.95	49.33	50.74	50.89	51.11	51.56	51.85
500	44.06	46.65	47.88	48.87	49.36	49.77	50.3	49.67	50.11	50.71	51.17	51.44
630	44.7	46.97	47.66	47.62	48.39	49.13	49.94	50.62	50.85	51.25	51.48	51.55
800	44.27	46.49	47.24	47.71	48.35	49.18	49.89	50.58	50.92	50.81	50.86	50.73
1000	44.25	46.31	47.06	47.45	47.98	48.5	49.1	50.42	50.62	50.76	50.66	50.59
1300	42.94	44.94	45.72	46.32	47.14	47.81	48.36	49.74	50.08	50.14	50.03	49.85
1600	41.77	43.92	45.1	45.98	46.61	47.21	47.66	48.74	48.93	48.79	48.78	48.76
2000	40.26	42.2	43.59	44.58	45.41	46.08	46.47	47.88	47.96	47.79	47.42	47.18
2500	38.37	40.38	41.68	42.77	43.7	44.44	44.95	46.78	46.82	46.44	46.04	45.87
3200	35.04	36.81	38.66	40.13	40.75	41.31	42	45.1	44.91	44.35	43.89	43.7
4000	29.19	32.01	33.92	35.28	35.95	36.43	37.1	42.08	41.8	41.34	40.71	40.24
5000	19.18	23.38	26.35	28.2	29.12	29.91	30.76	37.26	37.18	36.68	36.21	35.73
6300	0	0	0	13.15	13.84	18.02	20.91	31.11	31.15	30.76	30.06	29.57
8000	0	0	0	0	0	0	0	21.02	20.98	20.49	19.27	18.14
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	54.94	57.19	58.41	59.03	59.57	59.98	60.49	60.84	61.1	61.27	61.39	61.5
PNL	63.48	65.69	67.04	67.94	68.66	69.26	69.82	70.16	70.26	70.15	69.95	69.88

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	41.91	41.5	41.05	42.56	41.26	40.36	38.64	36.94	35.55	34.33	32.45	104.86
100	42.32	42.23	41.78	40.51	42.87	42.28	41.42	40.13	38.33	35.99	33.01	105.58
130	41.63	43.58	43.47	43.1	42.39	41.74	40.82	41.03	39.4	37.29	33.72	106.29
160	43.65	43.4	43.48	43.5	44.49	43.03	41.36	39.6	37.95	36.82	33.12	107.59
200	48.6	48.79	49.19	48.6	47.67	47.58	45.99	44.02	41.59	40.07	36.64	111.62
250	52.31	52.45	53.17	52.65	52.47	51.18	49.42	47.53	44.7	41.09	36.48	115.48
320	52.19	51.92	51.62	50.75	49.72	47.96	46.27	43.51	40.55	37.54	32.26	114.56
400	51.74	51.8	51.39	50.84	49.46	48.04	45.74	43.46	40.29	36.34	32.06	113.84
500	51.77	51.97	51.95	51.52	50.6	48.68	46.25	43.08	39.31	35.06	30.26	114
630	51.58	51.69	51.35	50.59	49.25	47.3	44.34	41	37.49	33.39	28.6	113.62
800	50.69	50.48	50.12	49.53	48.49	46.45	43.61	39.91	35.58	31.13	25.91	113.01
1000	50.38	49.91	49.51	48.73	47.08	44.73	41.59	37.92	33.87	29.19	23.51	112.49
1300	49.74	49.27	48.63	47.57	45.78	43.03	39.82	36	31.72	26.71	20.8	111.63
1600	48.18	47.48	47.18	46.2	43.94	41.07	37.73	34.03	29.6	24.47	17.19	110.43
2000	46.96	46.2	45.87	44.34	41.92	38.9	35.4	31.29	26.54	20.95	0	109.09
2500	45.47	44.34	43.39	42.16	39.66	36.12	32.29	28.1	23.1	10.29	0	107.48
3200	42.98	41.47	40.52	39.04	36.37	32.86	28.62	23.75	14.31	0	0	104.99
4000	39.81	37.57	36.38	34.73	31.53	27.59	22.88	11.79	0	0	0	101.26
5000	34.75	32.72	31.33	28.91	24.94	18.12	0	0	0	0	0	96.13
6300	28.73	26.44	23.96	19.7	0	0	0	0	0	0	0	89.4
8000	14.62	0.23	0	0	0	0	0	0	0	0	0	78.09
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	61.55	61.4	61.25	60.56	59.59	57.97	55.82	53.45	50.59	47.85	43.83	123.97
PNL	69.6	68.82	68.28	67.17	65.41	63.16	60.26	57.04	52.99	47.9	41.23	69.86

NASA Lewis Allison AST Jet Noise Test 1996

rdg	384
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	833.86
m01	0.19984
pamb	14.2585
tamb	501.135
rhumid	81.05
winds1	0
nprc	1.393
nprb	1.444
ptc	19.8635
ptb	20.5907
wactc	2.922
wactb	12.9
ttc	1187.83
ttb	508.054
ptmix	20.4564
ttmix	633.595
mixpnd	0.675683
grsvup	13193.3
badchan	(07,26)
bkgnd	373
escdate	03.Dec.96
esctime	16:37:34
DADSdate	03.Dec.96
DADStime	16:37:34
btchdate	03.Dec.96
btchtime	16:37:34

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:55:21 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.69	66.63	67.82	68.52	68.92	69.15	69.34	69.58	69.94	70.48	71.25	71.96	71.9	71.7	72.04	72.95	74.18	75.53	76.86	78.06	79.24	80.47	82.17	115.91
100	66.04	66.64	66.86	69.15	69.66	70.29	70.88	71.28	71.47	71.62	71.87	72.29	72.83	73.44	74.1	74.81	75.61	76.53	77.53	78.22	78.82	80.01	81.69	116.64
130	66.8	69.15	69	68.78	68.71	68.79	69	69.32	69.72	70.15	70.54	70.93	71.5	72.41	73.72	74.51	75.12	76.35	77.68	78.9	79.99	81.07	82.43	116.47
160	65.56	70.77	71.26	71.2	71.33	71.6	71.94	72.28	72.58	72.87	73.17	73.47	73.83	74.46	75.24	75.92	76.46	77	77.59	78.3	78.99	79.5	79.78	118.46
200	72.15	72.98	72.99	72.92	72.87	72.84	72.93	73.16	73.08	73.57	75.26	75.29	75.27	76.2	77.31	77.96	78.11	78.2	78.5	78.82	78.9	78.64	78.02	118.5
250	73.66	75.29	75.44	75.15	75.04	75.13	75.38	75.72	76.11	76.53	76.92	77.39	78.14	78.83	79.47	79.72	80.01	80.4	80.17	79.7	79.28	78.87	78.07	120.5
320	75.67	77.25	77.7	77.5	77.2	77.33	77.78	77.96	78.21	78.23	78.56	79.49	80.38	80.86	81.36	81.27	80.94	80.99	80.65	80.02	79.25	78.1	76.59	122.07
400	76.26	78.18	78.39	77.93	77.78	78.31	79.22	79.46	79.41	79.47	79.64	79.99	80.43	80.86	81.2	81.26	80.84	80.06	79.59	79.23	78.76	78.23	77.11	122.43
500	76.66	78.81	78.87	78.5	78.66	78.9	78.93	79.19	79.71	80.4	81.18	81.49	81.67	81.99	82.53	82.7	82.4	81.91	81.14	80.24	79.22	78.21	76.82	123.4
630	76.86	78.92	78.85	78.82	79.14	79.76	80.31	80.82	81.07	81.25	81.32	81.5	82.17	82.45	82.45	81.99	81.32	80.84	80.05	78.86	77.58	76.61	75.63	123.54
800	78.83	81.04	80.61	80.37	80.63	81.09	81.59	82.02	82.22	82.26	82.37	82.76	83.02	83.41	83.58	83.07	82	80.89	79.97	79.12	78.22	77.27	76.07	124.65
1000	79.69	80.98	80.92	80.77	80.89	81.14	81.45	81.93	82.38	82.67	82.87	83.03	83.53	83.85	84.06	83.51	82.26	81.14	80	79.04	78.14	76.81	75.29	124.91
1300	80.25	81.32	81.32	81.33	81.59	81.91	82.12	82.51	83.03	83.33	83.48	83.65	84.4	84.65	84.85	84.26	82.87	81.5	80.38	79.25	77.92	76.29	75.03	125.55
1600	80.31	81.43	81.75	81.78	82.04	82.34	82.54	82.86	83.16	83.42	83.79	83.97	84.32	84.96	85.48	84.72	82.98	81.55	80.33	79.13	77.83	76.43	75.39	125.83
2000	80.16	81.19	81.31	81.32	81.64	82.13	82.59	82.81	82.86	83.11	83.62	83.94	84.24	84.85	85.11	84.11	82.38	80.69	79.54	78.38	77.37	76.41	75.61	125.55
2500	80.17	81.21	81.24	80.96	81.01	81.4	82.04	82.57	82.8	82.79	83.14	83.53	83.65	84.06	84.22	83.33	81.56	79.87	78.83	77.92	76.82	75.76	75.01	125.04
3200	79.59	80.36	80.53	80.48	80.7	81.15	81.76	82.37	82.6	82.55	82.81	82.82	83	83.27	83.27	82.36	80.73	79.11	77.94	76.97	75.93	74.94	74.37	124.48
4000	78.76	79.6	79.82	79.86	79.84	80.4	81.26	81.51	81.6	81.93	82.29	82.42	82.16	81.7	81.56	80.8	79.4	78.1	76.9	75.84	74.47	73.71	73.47	123.59
5000	77.28	78.43	78.85	78.66	78.61	79.16	80.17	80.49	80.48	80.67	81.13	81.16	80.92	80.36	79.85	78.96	77.6	76.19	75.2	74.19	73.07	72.35	72.16	122.29
6300	76.06	77.13	77.45	77.24	77.12	77.85	79.21	79.42	79.56	79.72	79.34	79.58	79.65	79.06	78.4	77.36	75.83	74.33	73.44	72.58	71.63	71.16	71.05	120.97
8000	74.64	76.06	76.24	75.8	75.51	76.53	78.46	78.44	78.13	78.49	78.51	78.85	78.66	77.81	76.92	75.74	74.2	72.91	72.23	71.35	70.23	69.76	69.73	119.8
10000	72.32	72.88	72.63	73.03	73.74	74.74	75.74	75.49	75.16	75.44	75.47	75.46	75.42	74.9	74.21	73.25	71.45	69.44	68.89	68.15	66.73	66.14	66.21	118.91
OASPL	91.73	91.85	91.95	91.81	91.96	92.39	92.95	93.3	93.53	93.72	94.01	94.27	94.56	94.84	95.04	94.52	93.49	92.68	92.06	91.53	91.06	90.75	90.76	136.16

NASA Lewis Allison AST Jet Noise Test 1996

rdg	384
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	833.86
m01	0.19984
pamb	14.2595
tamb	501.135
rhumid	81.05
winds1	0
nprc	1.393
nprb	1.444
ptc	19.8635
ptb	20.5807
wactc	2.922
wactb	12.9
ttc	1187.83
ttb	508.054
ptmix	20.4564
ttmix	633.595
mixpnd	0.675683
grsvixp	13193.3
badchan	(07,26)
bkgnd	373
escdate	03.Dec.96
esctime	16.37:34
DADSdate	97.08.20
DADStime	16:37:34
btchdate	03.Dec.96
btchtime	16:37:34

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 15:33:18 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	42.08	46.86	47.44	47.66	47.86	48.01	50.79	49.89	48.14	51.06	50.73
100	45.13	45.22	47.71	47.96	48.16	47.58	49.12	50.67	50.11	49.56	49.26
130	46.71	47.43	47.9	50.21	50.4	50.26	51.75	49.07	49.11	50.96	50.77
160	47.72	50.11	50.65	50.85	52.41	52.13	52.68	51.84	51.59	52.7	53.35
200	50.33	51.81	53.25	53.11	53.9	53.78	55.13	52.72	52.46	53.21	53.69
250	52.99	54.64	56.04	56.96	56.89	57.21	57.37	55.18	56.36	56.47	57.79
320	53.33	54.7	55.59	56.23	56.91	57.37	57.56	57.22	57.17	57.46	57.13
400	53.65	55.88	56.57	56.8	57.02	57.28	57.72	58.21	58.58	58.76	58.91
500	52.59	55.25	56.15	56.65	57.25	57.91	58.5	58.08	58.57	58.96	59.31
630	53.82	55.78	56.42	56.57	57.49	58.36	59.3	59.05	59.37	59.69	59.82
800	54.58	56.7	57.45	57.71	57.89	58.31	58.79	59.74	59.96	59.82	59.81
1000	54.41	56.34	57.07	57.39	57.96	58.48	58.93	59.32	59.66	59.93	60.09
1300	54	56.02	56.76	57.36	58	58.53	58.87	59.47	59.89	60.07	60.07
1600	52.84	54.96	55.67	56.39	56.86	57.5	58.13	59.24	59.5	59.59	59.77
2000	51.88	53.75	54.5	54.96	55.53	56.1	56.64	58.44	58.63	58.82	58.8
2500	49.66	51.63	52.34	52.78	53.5	54.19	54.91	57.23	57.46	57.4	57.39
3200	46.24	48.03	49.19	49.96	50.55	51.33	52.29	55.53	55.73	55.57	55.5
4000	40.82	43.22	44.48	45.16	45.81	46.71	47.76	52.58	52.74	52.73	52.61
5000	32.64	35.36	37.03	37.93	38.75	39.99	41.4	48.15	48.07	47.89	47.69
6300	19.51	24.06	26.84	27.67	28.36	30.12	32.31	41.72	41.7	41.56	40.74
8000	0	0	0	0	0	0	11.1	32.63	32.31	32.13	31.44
10000	0	0	0	0	0	0	0	11.35	8.91	-1.98	0
OASPL	64.2	66.19	67.05	67.5	68.01	68.49	69.09	69.52	69.8	70.01	70.14
PNL	74.36	76.37	77.24	77.75	78.31	78.86	79.54	80.06	80.28	80.36	80.39

distance: (	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	50.56	50.53	50.59	50.72	53.36	52.94	52.52	51.95	51.31	50.38	49.15	47.71	115.74
100	51.1	51.07	50.74	50.23	49.72	52.17	52.44	52.73	52.83	52.5	51.64	50.15	118.18
130	50.63	50.74	52.58	52.57	52.49	52.29	52.24	53.46	53.01	52.06	50.49	48.2	116.59
160	52.67	53.94	54.06	54.11	53.76	54.32	53.45	52.3	51.07	49.38	48.34	45.11	117.27
200	54.35	54.23	54.41	55.31	55.02	54.46	54.85	53.88	52.55	50.7	48.81	45.59	118.45
250	56.07	59.09	59.2	59.87	59.06	58.63	57.19	55.39	53.78	51.21	47.73	43.17	121.61
320	57.67	57.99	57.84	57.64	56.77	56.2	55.03	54.06	52	49.59	46.92	42.57	120.76
400	58.98	58.74	59.05	59.07	58.82	57.54	56.39	54.18	52.26	49.51	45.84	41.38	121.74
500	59.63	59.63	59.26	58.81	58	56.84	54.78	52.76	50.14	47.04	43.24	38.33	121.6
630	59.85	59.94	59.92	59.3	58.08	56.28	54.45	52.27	49.52	46.5	42.63	37.49	121.95
800	59.87	59.73	59.56	58.84	57.62	58.06	53.96	51.45	48.61	44.96	40.63	34.87	121.99
1000	60.05	60.16	59.98	59.53	58.34	56.15	53.57	50.63	47.49	44.01	39.22	32.9	122.06
1300	60.06	60.18	60.04	59.46	57.97	55.81	53.31	50.3	48.62	42.42	37.37	30.96	122.02
1600	59.83	59.52	59.38	58.96	57.35	54.6	51.63	48.38	44.92	40.91	35.99	29.15	121.35
2000	58.8	58.72	58.4	57.57	55.58	52.94	49.86	46.7	43.13	38.76	33.35	25.85	120.21
2500	57.15	56.67	56.36	55.55	53.57	50.51	47.16	43.78	39.97	35.27	29.23	20.45	118.42
3200	55.04	54.41	53.72	52.63	50.41	47.38	44.17	40.57	36.25	30.9	24.07	0	116.06
4000	52.25	51.19	49.59	47.84	45.68	42.59	39.06	35.05	30.18	23.72	1.04	0	112.49
5000	47.02	45.99	44.28	42.37	39.86	36.01	31.74	27.13	19.87	0	0	0	107.21
6300	40.09	39.13	37.15	34.49	31.19	26.63	20.41	0.49	0	0	0	0	100.16
8000	30.54	28.86	25.85	21.84	14.46	0	0	0	0	0	0	0	90.19
10000	0	0	0	0	0	0	0	0	0	0	0	0	67.45
OASPL	70.21	70.23	70.12	69.76	68.77	67.46	65.94	64.34	62.83	60.64	58.47	55.68	132.59
PNL	80.28	80	79.65	78.94	77.34	75.19	72.7	69.98	67.31	64.03	59.96	54.41	80.04

NASA Lewis Allison AST Jet Noise Test 1996

rdg	383
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	958.25
m01	0.20225
pamb	14.2537
tamb	501.256
rhumid	76.06
winds1	0
nprc	1.54
nprb	1.615
ptc	21.9507
ptb	23.0197
wactc	3.081
wactb	15.319
ttc	1326.26
ttb	507.163
ptmix	22.8407
ttmix	644.652
mixpnd	0.769769
grsvlup	17631.8
badchan	(07,26)
bkgnd	373
escdate	03.Dec.96
esctime	16:21:54
DADSdate	03.Dec.96
DADStime	16:21:54
btchdate	03.Dec.96
btchtime	16:21:54

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:58:02 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.28	71.12	71.56	71.94	72.46	73.08	73.77	74.47	75.16	75.81	76.36	76.87	77.22	77.4	77.46	78.31	80.1	82.09	83.74	84.99	85.98	86.96	88.37	121.86
100	72.89	73.39	73.73	74.07	74.5	75.04	75.64	76.19	76.61	76.87	76.99	77	77.07	77.33	77.92	79	80.5	82.16	83.79	85.25	86.52	87.72	89.15	122.48
130	73.25	74.13	74.29	74.3	74.46	74.7	74.89	74.92	74.84	74.92	75.37	76.38	77.68	77.75	78.88	80.59	81.87	82.97	84.06	85.19	86.25	87.37	88.79	122.51
160	74.85	75.9	75.96	75.79	75.71	75.81	76.11	76.59	77.14	77.71	76.35	78.82	78.73	79.27	80.13	81.22	82.22	82.96	84.18	85.56	86.69	87.4	87.62	123.22
200	76.31	77.68	78.34	78.48	78.29	78.17	78.25	78.09	78.4	79.52	80.08	79.84	81.25	82	82.78	83.36	83.71	84.21	84.87	85.11	84.9	84.7	84.63	124.13
250	77.04	78.2	78.44	78.4	78.46	78.81	79.11	80	80.49	80.68	80.8	81.16	82	82.69	83.12	83.89	84.99	85.92	86.7	86.95	86.57	85.89	84.9	125.25
320	79.39	80.6	80.28	79.86	80.06	80.61	81.11	81.33	81.6	81.95	82.01	82.58	83.85	84.58	85.37	85.4	85.33	86.03	86.37	85.8	84.57	83.39	82.07	126
400	80.35	81.8	81.84	81.68	81.98	82.44	82.87	83.22	83.45	83.68	84.19	84.86	85.29	86.22	86.29	85.82	85.68	85.73	85.69	85.18	84.23	83.17	81.7	127.05
500	81.43	82.82	82.93	82.98	83.54	84.03	84.17	84.3	84.45	84.43	84.85	85.57	86.22	87.07	87.7	87.62	87.05	86.51	86.05	85.53	84.77	83.52	81.54	128.06
630	82.08	83.31	83.45	83.52	83.84	84.45	84.9	84.82	84.99	85.26	85.35	85.85	86.54	87.19	87.57	87.25	86.69	86.53	86.02	85.2	84.19	82.84	80.98	128.29
800	83.67	84.35	84.12	84.3	84.9	85.32	85.27	85.38	85.98	86.39	86.26	86.72	87.44	87.76	87.92	87.53	86.94	86.66	86.12	85.16	83.94	82.64	81.11	128.81
1000	85.22	85.86	85.3	85.53	86.17	86.23	85.68	85.76	86.61	87.11	87.35	88.03	88.85	88.89	88.46	87.63	86.71	86.09	85.39	84.43	83.12	81.63	80.12	129.81
1300	86.43	86.34	85.89	86.02	86.3	86.49	86.54	86.56	86.85	87.17	87.35	88.41	89.26	89.65	89.66	88.62	87.22	86.57	85.87	84.67	83.17	81.73	80.46	130.14
1600	86.42	86.09	86.02	86.4	86.71	87.13	87.38	87.16	87.47	87.98	88.67	89.57	90.14	90.65	90.53	89.24	87.78	87.04	86.16	84.76	83.19	82.13	81.4	130.83
2000	86.55	85.97	85.61	85.95	86.64	87.36	87.68	87.78	88.01	88.14	88.56	89.5	90.27	90.88	90.56	89.2	87.79	87.09	85.88	84.25	82.67	81.69	81.17	130.9
2500	85.83	85.57	85.4	85.69	86.34	87.07	87.43	87.46	87.68	87.7	88.5	89.66	89.96	90.15	89.91	88.7	87.32	86.51	85.29	83.72	82.21	81.19	80.76	130.53
3200	84.63	84.91	85.11	85.49	85.84	86.66	87.37	86.98	87.09	87.39	88.11	89.05	89.13	89.29	89.46	88.21	86.45	85.7	84.87	83.51	81.98	80.81	80.19	130
4000	83.55	84.06	84.23	84.66	85.03	86.01	86.55	85.91	86.7	86.98	87.5	88.23	88.21	87.98	87.48	86.81	85.53	84.56	83.54	82.11	80.57	79.63	79.43	129.03
5000	82.1	82.82	83.13	83.67	84.12	84.81	85.37	85.26	85.52	85.69	86.26	86.82	86.75	86.2	85.59	84.56	83.52	82.97	82.07	80.61	79.16	78.68	78.87	127.67
6300	81.04	82.29	81.89	82.51	83.27	83.87	84.26	84.23	84.34	84.43	84.74	85.15	85.19	84.75	84.04	82.86	81.68	80.94	80.1	78.81	77.51	77	77.04	126.33
8000	79.41	81.16	80.65	81.03	81.77	82.75	83.47	83.2	83.43	83.57	83.74	84.03	83.61	82.91	82.08	80.89	79.81	79.22	78.43	77.07	75.65	75.09	75.36	125.04
10000	76.59	78.37	78.87	78.15	80.09	80.87	80.44	80.28	80.59	80.43	80.45	80.23	79.84	79.27	78.71	77.99	77.09	76.13	75.07	73.59	72.02	71.16	71.31	122
OASPL	95.9	96.31	96.16	96.42	96.91	97.46	97.75	97.7	98.03	98.3	98.71	99.46	99.93	100.22	100.18	99.43	98.64	98.42	98.16	97.72	97.24	97	97.09	141.16

NASA Lewis Allison AST Jet Noise Test 1996

rdg	383
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engi	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	958.25
m01	0.20225
pamb	14.2537
tamb	501.256
rhumid	76.06
winds1	0
nprc	1.54
nprb	1.615
ptc	21.9507
ptb	23.0197
wactc	3.081
wactb	15.319
ttc	1328.26
ttb	507.163
ptmix	22.8407
ttmix	644.652
mixpnd	0.769769
grsvmp	17631.8
badchan	(07,26)
bkgnd	373
escdate	03.Dec.96
esctime	16:21:54
DADSdate	97.06.18
DADStime	16:21:54
bichdate	03.Dec.96
bichtime	16:21:54

**Scenario, Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:58:11 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.01	52.47	52.56	52.2	52.12	52.58	55.85	54.43	53.27	56.68	56.3	56.26	56.26	55.88	54.9	56.93	57.35	58.01	58.25	58.2	57.7	56.79	55.61	121.57
100	50.29	50.82	53.5	53.75	53.97	53.36	55.01	56.12	55.65	55.01	54.49	56.28	55.88	55.29	55.2	55.2	58.11	58.29	58.4	58.34	58.01	57.38	56.27	121.75
130	52.31	53.22	53.81	55.15	54.83	54.28	56.03	54.8	54.51	55.74	55.38	55.63	56.68	57.85	58.1	58.36	58.19	58.27	59.78	59.93	59.59	58.37	56.23	122.8
160	53.85	56.32	56.51	58.35	57.64	57.38	58.16	56.4	56.56	58.44	58.41	58.07	58.8	58.67	58.94	59.19	59.75	59.25	58.91	58.07	57.48	55.35	52.5	123.04
200	54.25	55.35	56.97	56.91	57.89	57.9	58.91	57.81	57.42	59.06	59.3	59.44	59.84	60	60.58	60.63	60.61	61.25	60.89	59.82	57.65	56.06	52.58	124.13
250	56.34	58.35	59.09	59.23	59.24	60.18	60.83	59.57	61.04	60.74	61.21	61.14	62.15	62.4	62.82	62.18	62.53	62.17	61.26	59.73	56.83	53.02	48.57	125.46
320	57.43	58.39	58.92	59.48	60.45	61.28	61.57	60.72	60.7	61.17	60.86	61.41	61.96	62.49	63.13	62.11	61.48	60.89	59.82	57.7	55.09	52.24	47.65	125.2
400	57.69	60.38	60.98	61.2	61.95	62.54	62.83	62.3	62.65	62.9	63.35	63.69	63.78	64.51	64.35	63.75	62.32	61.3	59.7	57.88	55.08	51.64	46.43	126.59
500	57.52	59.46	60.12	60.61	61.49	62.42	63.11	63.03	63.25	63.12	63.21	63.7	63.78	64.04	63.89	62.9	61.65	60.18	58.69	56.57	53.6	49.54	43.87	126.23
630	58.63	59.88	60.28	60.91	61.96	62.75	63.11	63.16	63.34	63.7	63.76	64.09	64.38	64.43	64.21	62.96	61.19	60.16	58.31	55.48	52.24	48.12	42.51	126.42
800	59.28	61.09	61.24	62.02	63.08	63.42	62.98	63.29	63.8	63.91	63.71	64.2	64.45	64.42	63.68	62.42	60.88	59.27	57.17	54.44	50.77	45.94	39.8	126.49
1000	60.55	61.35	61.44	61.93	62.52	62.93	63.22	63.2	64.04	64.47	64.34	64.61	65.31	64.9	64.25	62.6	60.4	58.59	56.25	53.21	49.22	44.28	37.75	126.68
1300	59.85	60.8	61.2	61.95	62.56	63.2	63.6	63.5	63.79	64.04	64.08	64.88	65.14	65.12	64.51	62.48	60.08	58.02	55.64	52.35	48.11	43.19	36.67	126.82
1600	59.56	59.7	60	61	61.98	62.9	63.35	63.55	63.91	64.29	64.72	65.38	65.53	65.54	64.49	62.08	59.37	57.44	54.67	50.78	46.25	41.4	34.8	126.55
2000	58.14	58.35	56.7	59.54	60.62	61.62	62.07	63.46	63.61	63.56	64.09	64.84	64.75	64.47	63.26	61.08	58.61	56.2	52.91	48.9	44.29	38.71	31.35	125.63
2500	55.17	55.97	56.7	57.69	58.65	59.74	60.6	62.17	62.43	62.19	62.44	63.22	62.97	62.28	61.47	59.14	56.17	53.75	50.81	46.72	41.54	35.23	26.69	123.69
3200	51.19	52.73	53.71	54.92	55.8	56.95	57.58	60.26	60.29	60.4	60.77	61.15	60.57	59.9	58.78	56.36	53.37	50.5	46.99	42.48	36.69	29.98	19.01	121.51
4000	45.56	47.52	48.87	49.99	50.96	52.2	53.07	56.98	57.6	57.81	57.83	57.91	57.11	55.86	53.88	51.61	48.79	45.73	41.97	36.78	30.23	21.62	0	117.8
5000	37.65	40.27	41.48	43.03	44.56	45.76	46.45	52.94	53.07	52.92	52.91	52.67	51.67	50.08	48.05	45.11	41.75	38.22	33.88	27.69	17.7	0	0	112.5
6300	25.78	29.9	31.47	33.22	34.82	36.33	37.48	46.53	46.62	46.29	45.98	45.66	44.58	42.58	40.02	36.65	32.89	28.38	22.06	0	0	0	0	105.34
8000	0	0	0	12.1	17.09	21.08	21.8	37.36	37.47	37.19	36.54	35.78	33.92	31.19	27.78	23.09	15.87	0	0	0	0	0	0	95.34
10000	0	0	0	0	0	0	0	21.67	21.63	20.14	18.55	14.98	-2.33	0	0	0	0	0	0	0	0	0	0	77.71
OASPL	69.4	70.69	71.17	71.75	72.56	73.21	73.68	73.85	74.18	74.44	74.57	75.03	75.25	75.23	74.8	73.57	72.37	71.45	70.4	68.92	67.12	65.1	62.57	137.48
PNL	80.09	81	81.53	82.3	83.24	84.09	84.64	84.79	85.05	85.11	85.29	85.81	85.72	85.34	84.53	82.69	80.64	78.77	76.39	73.54	70.31	66.45	61.34	85.27

NASA Lewis Allison AST Jet Noise Test 1998

rdg	382
run	1
test_prog	Allison98
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
nacbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
ambic	35.02
ambib	78.39
scale	4
vid	1015.5
m01	0.20191
pamb	14.2522
tamb	501.487
rhumid	76.29
winds1	0
nprc	1.741
nprb	1.823
ptc	24.8131
ptb	25.9818
wactc	3.511
wactb	17.6
ttc	1409.39
ttb	506.428
ptmix	25.7874
ttmix	856.801
mbpnd	0.806323
grav	21436.2
badchan	{07,26}
bkgnd	373
aeodate	03.Dec.98
aectime	16:17:09
DADSdate	03 Dec 98
DADStime	16:17:09
btchdate	03.Dec.98
btchtime	16:17:09

**Scenario: 150 foot arc; 77F, 70%; Full scale, Third-octave SPL

Processing date: Mon Aug 18 10:00:42 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (ft)	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	74.41	75.82	77.55	78.52	78.52	78.04	77.61	77.63	78.19	79.03	79.89	80.62
100	77.3	77.77	77.93	78	78.14	78.33	78.58	78.88	79.23	79.63	80.08	80.56
130	77.22	78.37	79.02	79.18	78.91	78.46	78.05	77.83	77.88	78.21	78.81	79.73
160	79.79	80.52	80.72	80.65	80.45	80.26	80.2	80.35	80.73	81.29	81.98	82.88
200	80.83	81.56	81.78	81.84	81.99	82.04	81.89	81.84	82.03	82.48	83.12	83.93
250	81.86	82.67	82.46	82.05	81.93	82.05	82.3	82.8	83.07	83.72	84.25	84.98
320	82.55	83.71	83.9	83.67	83.35	83.43	83.97	84.11	84.32	84.47	84.84	85.56
400	83.5	84.18	84.33	84.55	85.19	85.93	86.57	86.95	87.07	87.3	87.79	88.6
500	85.57	86.51	86.36	86.19	86.49	86.75	86.88	87.15	87.34	87.48	87.78	88.37
630	85.78	87.19	87.25	86.99	87.03	87.21	87.38	87.61	87.93	88.31	88.63	89.41
800	87.63	88.54	88.25	87.99	88.03	88.37	88.91	89.33	89.25	89.18	90.02	91.17
1000	88.77	89.62	89.11	88.97	88.81	88.87	89.31	89.88	90.31	90.61	91.39	92.38
1300	89.61	90.11	90.04	89.94	89.79	89.75	89.94	90.42	91.03	91.55	92.18	93.17
1600	90.49	90.58	90.35	90.27	90.32	90.55	90.89	91.49	92.04	92.27	93.19	94.62
2000	90.9	91.18	91	90.88	91.04	91.44	91.84	92.07	92.44	92.92	93.88	95.48
2500	91.42	91.66	91.44	91.21	91.16	91.46	91.87	92.22	92.66	92.96	93.87	95.72
3200	91.6	91.75	91.63	91.47	91.33	91.48	91.98	92.17	92.57	93.1	93.81	95.38
4000	91.64	91.88	91.95	91.83	91.55	91.58	91.91	91.93	92.23	92.58	93.54	95.27
5000	90.66	91.5	91.39	91.22	90.88	90.9	91.43	91.57	91.64	92.01	93.06	94.57
6300	89.6	90.64	90.81	90.42	90.06	90.21	90.83	91.1	91.3	91.58	92.04	93.36
8000	88.15	89.49	89.69	89.41	89.11	89.46	90.33	90.52	90.78	91.22	91.91	92.71
10000	85.69	86.45	86.47	86.67	87.06	87.42	87.62	87.87	88.2	88.64	89.24	89.13
OASPL	101.35	101.93	101.88	101.7	101.61	101.8	102.22	102.5	102.82	103.18	103.94	105.25

distance: (ft)	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.3	82.01	82.83	83.82	85.02	86.45	88.14	89.94	91.78	93.69	95.07	127.18
100	81.19	82.02	83.1	84.4	85.85	87.41	89.02	90.62	92.18	93.8	95.82	127.59
130	80.95	82.06	83.36	84.79	86.29	87.73	89.01	90.25	91.47	92.77	94.41	127.2
160	83.24	83.87	84.75	85.87	87.15	88.56	90.02	91.38	92.52	93.48	94.42	128.43
200	84.76	85.29	85.87	86.93	88.18	89.27	90.64	91.74	92.23	92.44	92.26	128.94
250	86.04	86.79	87.67	89	90.17	90.6	90.8	91.21	91.72	91.94	91.51	129.81
320	86.65	88.13	89.12	89.82	90.57	91.08	91.3	91.06	90.55	90.18	89.35	130.1
400	89.08	89.46	90.08	90.75	91.17	91.14	90.78	90.11	89.28	88.5	87.64	131.13
500	88.94	89.93	91.18	91.62	91.69	91.85	91.73	90.94	89.71	88.14	86.57	131.78
630	90.35	91.07	91.58	91.74	91.71	91.55	90.87	89.54	88.41	86.98	85.55	132.08
800	91.84	92.86	92.85	92.11	91.46	91.57	91.24	89.91	87.9	85.83	84.52	133.08
1000	93.21	93.64	93.53	92.63	91.57	91.04	90.5	89.4	87.68	85.74	84.36	133.79
1300	94.41	94.98	94.77	93.17	91.46	91.08	90.29	88.74	86.92	85.31	84.21	134.56
1600	95.89	96.62	96.04	93.98	92.01	91.3	90.67	88.98	86.68	85.18	84.75	135.56
2000	97.02	97.64	96.81	94.64	92.51	91.48	90.65	89.16	87.11	85.5	84.83	136.31
2500	97.14	97.37	96.76	94.88	92.57	91.18	90.27	88.84	86.95	85.75	85.57	136.37
3200	96.15	96.22	96.05	94.38	92.08	90.8	90	88.6	86.81	85.43	84.95	136
4000	95.59	94.9	94.47	93.44	91.82	90.52	89.23	87.58	85.77	84.45	84.09	135.55
5000	94.53	93.78	93.23	92	90.31	89.11	88.15	86.7	84.87	83.62	83.37	134.74
6300	93.56	92.66	91.82	90.58	88.79	87.71	86.8	85.59	83.83	82.5	82.1	133.83
8000	92.85	91.82	90.64	89.05	87.56	86.73	86.17	84.88	82.83	81.26	80.78	133.08
10000	89.67	89.23	88.17	86.8	85.45	84.07	83.25	81.91	79.77	77.98	77.38	130.34
OASPL	106.09	106.28	105.97	104.85	103.81	103.51	103.29	102.88	102.55	102.86	103.35	146.53

NASA Lewis Allison AST Jet Noise Test 1996

rdg	382
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nacbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amsec	35.02
amixb	78.39
scale	4
vid	1015.5
m01	0.20191
pamb	14.2522
tamb	501.487
rhumid	78.29
winds1	0
nprc	1.741
nprb	1.823
ptc	24.8131
ptb	25.9818
wactc	3.511
wactb	17.6
ttc	1409.39
ttb	508.428
ptmix	25.7874
ttmix	658.601
mixpnd	0.808323
grsvicp	21438.2
badchan	{07,26}
bkgnd	373
escdate	03.Dec.96
esctime	16:17:09
DADSdate	97.08.18
DADStime	16:17:09
btchdate	03.Dec.96
btchtime	16:17:09

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:00:51 1997

Data ambient 14.70 psia
Data ambient 537.0 R
Data ambient 70.00%
Data scale 1

distance: (	1631.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	52.96	56.61	56.57	56.39	56.41	56.49	58.93	57.59	56.3	59.18	59.01
100	54.48	54.57	57.64	57.64	57.84	57.01	58.17	58.81	58.25	57.76	57.55
130	56.55	57.38	57.7	59.56	59.35	58.83	60.15	57.71	57.53	59.3	59.15
160	57.96	60.26	60.57	60.57	61.66	61.3	61.79	60.16	60.09	61.73	62.18
200	59.2	59.59	60.53	60.21	61.09	61.07	62.05	61.56	61.17	61.96	62.16
250	60.23	61.82	62.9	63.3	63.06	63.2	63.66	62.17	63.53	63.74	64.82
320	60.48	61.37	61.8	62.11	63.04	64.36	66.04	63.5	63.58	63.82	63.41
400	61.22	63.05	63.64	64.11	64.9	65.33	65.68	66.03	66.22	66.43	66.86
500	61.61	63.38	63.86	64.39	64.72	65.23	65.58	65.89	66.05	66.11	66.32
630	62.1	64.04	64.4	64.32	65.09	65.8	66.7	65.95	66.24	66.81	67.18
800	63.44	64.99	65.06	65.39	65.64	66.05	66.63	67.24	67.19	66.92	67.57
1000	63.6	64.98	65.49	65.99	66.21	66.35	66.74	67.3	67.67	68.03	68.59
1300	63.69	64.83	65.23	65.73	66.12	66.56	67.1	67.37	67.92	68.32	69.03
1600	63.62	64.58	65.07	65.39	66.06	66.79	67.39	67.88	68.45	68.82	69.27
2000	62.77	63.97	64.53	64.9	65.36	66.01	66.53	67.75	68.18	68.52	69.24
2500	61.24	62.51	63.2	63.65	64.02	64.5	65.18	66.92	67.33	67.5	68.15
3200	58.61	59.91	60.86	61.52	61.74	62.24	62.88	65.43	65.76	66.1	66.48
4000	53.95	55.89	56.94	57.49	57.75	58.24	59.01	62.96	63.19	63.41	63.99
5000	46.18	48.67	50.12	51.03	51.44	52	52.81	59.16	59.1	59.22	59.67
6300	34.97	38.42	40.35	41.23	41.9	42.06	44.33	53.34	53.48	53.45	53.4
8000	12.54	20.8	24	26.11	27.51	28.77	29.85	44.62	44.78	44.78	44.89
10000	0	0	0	0	0	0	0	30.25	30.17	29.79	29.21
OASPL	73.49	74.89	75.43	75.81	76.25	76.69	77.31	77.77	78.07	78.38	78.89
PNL	84.88	86.25	86.89	87.31	87.75	88.28	88.91	89.38	89.68	89.94	90.47

distance: (	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.9	58.92	59.13	59.53	62.49	62.67	63.04	63.46	63.89	64	63.71	63.07	126.82
100	59.61	60.34	60.03	59.64	60.34	63.64	64.28	64.37	64.26	64.05	63.54	62.45	127.06
130	59.18	59.56	61.65	62.25	62.66	62.99	63.45	65.1	65.14	64.72	63.65	62.04	127.58
160	62.62	63.54	63.37	63.33	63.56	64.86	65.2	65.36	65.27	65.22	63.54	60.64	128.61
200	63.34	64.17	64.05	64.69	65.05	65.44	66.29	65.56	64.55	63.03	62.03	59.08	128.57
250	65.04	65.79	66.36	67.11	67.27	67.78	66.67	65.58	64.83	63.02	60.36	56.4	129.79
320	64.4	65.14	65.61	66.68	66.67	66.58	65.67	65	62.87	60.3	57.86	54.08	129.03
400	67.32	67.24	67.38	67.48	67.72	67.15	66.76	64.93	63	60.01	56.18	51.24	130.33
500	66.68	67.01	67.75	68.32	67.66	66.69	65.54	63.63	60.93	57.84	53.75	48.64	130
630	67.6	68.33	68.34	68.08	67.24	66.19	65.35	63.48	60.3	56.48	51.77	46.26	130.27
800	68.46	68.98	69.47	69.11	67.57	65.66	63.93	62.07	59.21	54.96	49.73	44.03	130.66
1000	69.15	69.83	69.91	69.22	67.24	64.72	62.94	60.73	57.49	53.11	48.04	41.74	130.9
1300	69.89	70.52	70.76	69.92	67.21	64.46	62.89	60.16	56.43	51.66	46.56	40.4	131.22
1600	70.48	71.55	71.65	70.23	67.28	64.09	61.97	59.61	55.75	50.56	44.66	38.17	131.57
2000	70.57	71.56	71.5	69.83	66.86	63.42	60.81	57.85	54.02	48.87	42.96	35.78	131.26
2500	69.51	70.07	69.41	68.27	65.35	61.63	58.81	55.87	51.81	48.34	40.03	31.71	129.86
3200	67.86	67.71	66.8	65.4	62.8	59.51	58.21	52.57	47.9	41.89	34.57	24.9	127.71
4000	65.08	64.81	62.9	61.12	58.64	55.2	51.76	47.91	42.6	35.61	27.18	3.18	124.47
5000	60.61	59.55	57.77	55.89	52.72	48.85	44.81	40.44	34.48	26.18	5	0	119.56
6300	53.97	53.15	50.7	47.96	44.42	40.04	35.57	30.31	22.15	0	0	0	112.9
8000	44.55	43.34	40.51	36.89	32.3	26.94	20.2	-3.08	0	0	0	0	103.5
10000	27.26	25.44	21.99	15.55	0	0	0	0	0	0	0	0	87.57
OASPL	79.6	80.39	80.41	79.81	78.45	77.34	76.52	75.52	74.24	72.88	71.32	69.22	142.13
PNL	91.55	91.99	91.57	90.58	88.42	85.89	83.8	81.61	78.89	75.65	72.2	67.91	90.65

NASA Lewis Allison AST Jet Noise Test 1996

rdg	375
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	577.37
m01	0.29947
pamb	14.193
tamb	502.269
rhumid	73.28
winds1	0
nprc	1.177
nprb	1.226
ptc	16.7052
ptb	17.4006
wacic	1.832
wactb	9.205
ttc	1102.21
ttb	498.963
ptmix	17.2852
ttmix	599.095
mixpnd	0.48113
grsvixp	6372.43
badchan	(07,26)
bkgnd	374
escdate	03.Dec.96
esctime	15:25:46
DADSdate	03.Dec.96
DADStime	15:25:46
btchdate	03.Dec.96
btchtime	15:25:46

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 04:02:01 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0
200	64.96	65.83	67.91	67.5	67.42	67.43	67.94	68.32	68.5	68.62	68.94	69.18
250	66.44	68.82	70.41	69.58	67.83	68.8	67.23	68.18	68.74	68.89	68.78	69.13
320	70.55	72.78	73.27	72.96	72.68	72.68	72.93	73.37	73.66	73.58	73.34	73.43
400	67.91	69.72	70.17	69.75	70	70.66	70.69	70.45	70.97	71.53	71.92	72.46
500	67.79	69.79	69.79	69.42	69.36	69.92	70.53	70.52	71.18	71.83	71.96	72.35
630	67.82	70.19	70.43	70.15	70.22	70.99	71.78	71.43	71.64	71.94	71.87	72.51
800	68.32	70.05	70.48	70.63	70.95	71.34	71.62	71.86	71.64	71.61	71.81	72.53
1000	69.11	70.61	70.84	70.82	71.02	71.37	71.8	72.3	72.63	72.74	72.81	72.85
1300	69.17	70.57	71.01	71.05	71	71.08	71.35	71.81	71.94	71.89	71.84	71.95
1600	69.29	70.56	70.92	70.98	70.96	71.07	71.29	71.67	71.52	71.03	71.3	71.65
2000	68.97	70	70.44	70.69	70.84	71.13	71.53	71.83	71.49	70.66	70.63	71.16
2500	68.95	69.45	70.09	70.51	70.44	70.42	70.61	70.85	70.73	70.17	70.25	70.79
3200	68.67	69.36	70.28	70.74	70.48	70.27	70.51	70.97	70.84	69.88	69.72	70.08
4000	67.5	68.74	69.71	70.08	69.65	69.63	70.05	70.2	70.06	69.28	69.13	69.32
5000	65.77	67.26	68.44	69.02	68.78	68.56	68.95	69.32	69.13	68.51	68.56	68.55
6300	64.84	66.3	67.67	68.15	67.81	67.75	68.43	69.09	69.17	68.49	68.08	68.36
8000	64.13	66.21	67.52	68.07	67.72	67.69	68.61	69.44	69.47	68.8	68.55	68.66
10000	63.47	64.44	65.45	66.36	66.79	66.95	67.28	67.92	67.9	67.3	67.1	66.54
OASPL	80.38	81.92	82.57	82.8	82.49	82.64	83.02	83.34	83.45	83.23	83.27	83.58

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	42.93
200	68.59	68.58	68.94	68.16	68.22	68.16	67.85	67.13	66.44	66.41	0	110.93
250	69.7	69.99	69.83	69.64	69.8	70	70.36	70.32	69.31	69.1	63.21	112
320	73.85	74.31	74.51	74.31	73.76	73.18	72.56	71.74	70.8	69.87	67.17	116.14
400	72.59	72.19	72.14	72.36	72.02	71.45	70.79	70	67.96	66.87	64.66	113.99
500	72.37	72.75	73.18	73.21	73.15	73.07	72.85	72.27	70.96	68.89	65.3	114.4
630	73.11	73.13	73.07	72.94	72.36	71.96	71.6	70.77	69.48	68.13	67.25	114.54
800	72.57	72.89	73.02	72.72	72.09	71.43	70.71	69.7	68.48	67.36	66.99	114.44
1000	72.83	72.8	72.73	72.43	71.73	71.25	70.86	69.99	68.69	67.16	66.2	114.71
1300	71.73	71.75	71.86	71.56	70.52	69.89	69.48	68.73	67.69	66.6	66.03	114.03
1600	71.42	71.58	71.76	71.29	70.23	69.36	68.7	67.96	66.99	65.94	65.36	113.77
2000	70.93	70.69	70.57	70.14	69.13	68.41	67.91	67.12	66.12	65.2	64.92	113.34
2500	70.21	70.26	70.26	69.41	68.15	67.39	66.95	66.03	64.95	63.93	63.59	112.74
3200	69.57	69.17	68.78	68.13	67.31	66.58	65.81	64.84	63.76	62.91	62.7	112.38
4000	68.37	67.5	67.08	66.7	66.13	65.38	64.54	63.73	62.85	62.02	61.87	111.54
5000	67.57	66.57	66.09	65.79	65	64.08	63.2	62.53	61.84	61.12	60.95	110.55
6300	67.58	66.35	65.74	65.48	64.56	63.46	62.55	61.91	61.26	60.54	60.45	110.1
8000	67.58	66.22	65.47	65.13	64.38	63.42	62.61	62.09	61.51	60.81	60.58	110.19
10000	65.53	64.31	64.11	64.56	63.87	62.25	60.69	60.37	60.19	59.3	58.86	108.72
OASPL	83.47	83.42	83.44	83.18	82.59	82.1	81.63	80.91	79.76	78.71	76.86	125.86

NASA Lewis Allison AST Jet Noise Test 1996

rdg 375
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 577.37
m01 0.29947
pamb 14.193
tamb 502.269
rhumid 73.28
winds1 0
nprc 1.177
nprb 1.226
ptc 16.7052
ptb 17.4006
wactc 1.832
wactb 9.205
ttc 1102.21
ttb 498.963
ptmix 17.2852
ttmix 599.095
mixpnd 0.48113
gravisp 6372.43
badchan (07.26)
bkgnd 374
escdate 03.Dec.96
esctime 15:25:46
DADSdate 03.Dec.96
DADStime 15:25:46
btchdate 03.Dec.96
btchtime 15:25:46
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:02:09 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (ft)	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	40.53	45.18	48.02	0	0	0	0	0	0	41.26	40.46	41.86	40.3	39.58	0	0	0	0	0	102.6
160	43.8	46.58	48.31	48.45	47.39	46.38	47.45	48.02	49.4	49.49	49.2	49.56	47.97	48.09	47.64	47.82	46.45	46.45	42.66	40.7	38.48	36.49	0	111.63
200	46.38	48.97	51.19	52.06	52.17	52.35	52.54	47.75	49.65	51.21	52.15	51.9	52.73	52.88	52.56	51.52	50.51	48.83	45.26	43.7	42.54	39.87	30.21	115.05
250	47.18	49.5	49.13	48.11	48.39	49.15	49.67	52.76	52.51	51.68	50.31	50.03	49.61	49.2	49.05	49.03	48.01	46.38	47.22	44.86	42.18	38.93	32.92	113.59
320	44.29	46.86	47.37	47.45	47.73	48.55	48.8	49.53	50.37	50.78	50.56	50.71	50.42	50.17	50.08	49.46	48.52	47.73	44.86	42.66	39.31	36.01	31.68	112.93
400	44.23	46.67	47.58	47.86	48.2	49.16	50.14	49.25	50.01	50.6	51.16	51.16	51.28	50.59	49.89	49.09	47.59	45.93	46.17	44.32	41.13	36.66	29.61	113.14
500	43.38	46.39	46.91	47.14	47.83	48.92	49.39	49.78	49.89	50.17	49.8	50.38	50.24	49.99	49.3	48.22	46.67	45.09	44.48	42.11	38.84	34.77	30.36	112.41
630	43.43	46.23	47.21	47.68	48.17	48.63	49.19	49.76	49.53	49.11	49.09	49.58	49.22	49.11	48.78	47.58	45.85	44.07	43.01	40.23	36.8	32.84	28.22	111.85
800	43.59	45.64	46.44	46.96	47.37	47.68	48.23	49.74	50.03	49.9	49.82	49.43	48.77	48	47.17	46.08	43.98	41.97	42.28	39.6	35.85	31.3	25.88	111.33
1000	42.96	45.01	46.03	46.53	46.99	47.45	47.67	48.77	48.81	48.23	48.01	48.02	47.33	47.01	46.4	45.07	43.09	40.63	40.03	37.4	33.81	29.36	23.7	110.28
1300	42.12	44.04	45.02	45.52	45.84	46.37	47.14	48.06	47.91	47.16	47.2	47.1	46.37	45.3	44.51	43.33	41.29	39.09	38.46	35.59	31.94	27.1	20.89	109.17
1600	40.48	42.45	43.5	44.39	44.99	45.35	45.4	47.52	47.07	48.11	45.86	45.68	44.88	44.34	43.41	41.55	39.01	36.79	36.65	33.6	29.63	24.66	17.72	107.91
2000	38.71	40.12	41.64	42.7	43.02	43.18	43.75	45.56	45.42	44.63	44.46	44.58	43.29	42.39	41.14	39.21	36.88	34.46	34.49	31.09	26.77	21.26	0	106.13
2500	35.49	37.28	39.1	40.23	40.26	40.53	41.07	44.24	44.03	42.87	42.32	42	40.7	39.1	37.55	35.85	33.7	31.08	31.54	27.87	23.21	9.63	0	103.76
3200	29.83	32.65	34.59	35.86	35.81	36	36.65	41.26	41.02	40.03	39.48	39.15	37.47	35.58	33.84	31.98	29.43	26.27	27.84	23.86	14.95	0	0	100.27
4000	20.05	24.16	26.95	28.53	28.91	28.38	30.41	36.99	36.62	35.73	35.24	34.8	32.94	30.83	29.03	27.04	23.47	16.27	22.09	11.91	0	0	0	95.3
5000	0	0	9.16	15.04	16.97	18.18	20.81	31.24	31.4	30.56	29.78	29.31	27.49	24.44	20.08	15.4	0	0	0	0	0	0	0	89.03
6300	0	0	0	0	0	0	0	22.3	22.21	20.78	19.38	17.18	6.19	0	0	0	0	0	0	0	0	0	0	78.47
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	54.76	57.19	58.19	58.54	58.81	59.37	59.87	60.2	60.5	60.45	60.34	60.37	60.08	59.82	59.35	58.54	57.15	55.74	54.29	52.08	49.29	45.87	39	122.81
PNL	63.21	65.4	66.53	67.22	67.82	68.32	68.72	69.03	69.07	68.53	68.29	68.29	67.35	66.71	65.81	64.4	62.73	61.13	59.13	56.46	52.5	46.96	38.32	66.84

NASA Lewis Allison AST Jet Noise Test 1996

rdg	379
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.25
m01	0.29993
pamb	14.1952
tamb	501.922
rhumid	74.72
winds1	0
nprc	1.396
nprb	1.443
ptc	19.8165
ptb	20.4837
wactc	2.865
wactb	12.812
ttc	1171.89
ttb	500.38
ptmix	20.3617
ttmix	623.1
mixpnd	0.666144
grsvixp	12780.7
badchan	(07,26)
bkgnd	374
escdate	03.Dec.96
esctime	15:44:46
DADSdate	03.Dec.96
DADStime	15:44:46
bkchdate	03.Dec.96
bkchtime	15:44:46

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:11:28 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	67.69	68.36	68.85	69.43	70.19	70.92	71.27	70.96	70.36	70.22	71.07	72.42
100	68.26	68.58	69.08	69.52	69.83	70.17	70.88	71.4	71.68	71.34	71.41	71.95
130	68.43	70.67	70.09	69.72	69.76	70	69.99	69.51	69.66	70.41	70.46	70.05
160	68.98	69.93	70.24	70.34	70.4	70.55	70.9	71.51	72.28	72.79	72.8	72.46
200	70.85	72	72.03	71.98	72.03	72.41	72.74	72.31	72.8	73.85	74.23	74.8
250	72.84	75.04	75.2	74.55	74.11	74.07	74.43	75.14	75.91	76.36	76.38	76.21
320	75.58	76.86	76.82	76.3	75.74	75.59	76.03	76.64	77.78	78.1	77.55	77.51
400	75.4	77.6	77.21	76.37	76.32	76.73	77.15	77.88	78.18	78.48	78.58	78.55
500	76.48	78.71	78.09	77.3	77.41	77.79	78.05	78.31	78.63	78.95	79.1	79.11
630	76.83	78.84	78.48	78.29	78.3	78.46	78.66	78.94	79.2	79.02	78.72	78.89
800	78.69	79.83	79.34	79.54	79.7	79.63	79.81	80.27	80.63	80.72	80.41	80.28
1000	80.1	81.06	80.75	80.49	80.42	80.39	80.55	80.95	81.14	81.18	81.29	81.48
1300	80.88	81.43	81.16	81.15	80.82	80.58	80.69	81.15	81.2	81.01	81.48	81.78
1600	80.97	81.6	81.58	81.31	81.27	81.31	81.38	81.48	81.53	81.45	81.48	82.13
2000	81.71	81.74	81.49	81.23	81.09	81.01	81.17	81.65	81.79	81.7	81.82	81.91
2500	81.22	81.1	81.01	81.05	80.86	80.8	81.12	81.4	81.33	81.24	81.36	81.72
3200	81.2	80.6	80.77	80.77	80.46	80.37	80.88	81.1	80.86	80.91	81.15	81.28
4000	79.74	80.2	80.52	80.32	79.67	79.61	80.32	80.4	80.17	80.18	80.47	80.37
5000	78.55	79.22	79.6	79.36	78.65	78.41	79.11	79.32	78.87	78.87	79.29	79.23
6300	77.13	78.05	78.47	78.06	77.17	77.03	78.11	78.36	77.86	77.72	77.82	77.65
8000	75.89	77.17	77.74	76.84	75.77	75.85	77.39	77.46	76.54	76.4	76.41	76.48
10000	74.02	74.39	74.46	74.26	74.15	73.89	74.58	74.81	73.84	73.33	73.35	72.81
OASPL	91.27	91.97	91.8	91.67	91.42	91.4	91.78	92.09	92.12	92.15	92.24	92.39

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.1	71.28	71.48	72.47	73	73.15	73.22	73.44	73.86	75.02	77.09	114.47
100	71.58	71.63	72.04	72.37	72.65	72.93	73.32	73.87	74.5	75.43	77.52	114.6
130	71.69	72.27	71.93	71.8	71.91	72.22	72.76	73.54	74.53	75.79	77.39	114.22
160	72.65	72.59	72.59	72.72	72.53	73.07	74.07	74.49	74.86	75.71	76.9	115.21
200	75.09	75.03	75.09	75.27	75.36	75.41	75.44	75.48	75.37	75.22	75.4	116.87
250	76.48	76.97	77.29	77.46	77.64	77.63	77.4	77.14	76.72	76.18	75.87	118.98
320	77.89	78.7	78.29	79.34	79.15	78.74	78.12	77.34	76.45	75.59	75.05	120.43
400	78.5	78.46	78.65	79	79.05	78.39	77.46	76.74	76.01	75.15	74.56	120.7
500	79.21	79.45	79.73	79.84	79.7	79.22	78.53	77.74	76.79	75.76	74.88	121.5
630	79.04	79.15	79.36	79.43	79.08	78.56	77.92	77.15	76.2	75.16	74.54	121.55
800	80.67	80.78	81.05	81.31	80.63	79.52	78.33	77.18	76.03	75.11	74.68	122.89
1000	81.59	81.5	81.5	81.55	81	79.93	78.5	76.94	75.61	74.79	74.62	123.61
1300	82.37	82.51	82.42	82.18	81.43	80.18	78.74	77.38	76.15	75.17	74.78	124.02
1600	82.54	82.83	82.99	82.74	81.6	80.47	79.08	77.72	76.55	75.74	75.48	124.39
2000	82.13	82.44	82.52	82.11	81.03	79.7	78.38	77.3	76.39	75.83	75.39	124.23
2500	81.71	81.45	81.32	81.03	79.95	78.62	77.43	76.52	75.57	74.86	74.62	123.7
3200	81.12	80.79	80.69	80.49	79.43	78.05	76.72	75.6	74.68	74.05	74.08	123.27
4000	80.17	79.53	79.05	78.69	77.81	76.7	75.62	74.58	73.62	72.94	73.23	122.41
5000	78.7	78.09	77.73	77.29	76.23	75.06	73.98	72.98	72.04	71.44	71.96	121.2
6300	77.63	77.08	76.53	76.01	74.78	73.38	72.16	71.21	70.42	69.97	70.83	119.95
8000	76.52	75.93	75.07	74.22	73.23	72.15	71.07	70.12	69.16	68.56	69.44	118.81
10000	73.31	73.12	72.58	72.1	71.12	69.45	67.7	66.57	65.69	65.16	66.05	116.07
OASPL	92.54	92.53	92.54	92.43	91.8	90.89	89.97	89.16	88.46	88.02	88.32	134.88

NASA Lewis Allison AST Jet Noise Test 1996

rdg 379
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 815.25
m01 0.29993
pamb 14.1952
tamb 501.822
rhumid 74.72
winds1 0
nprc 1.396
nprb 1.443
ptc 19.8165
ptb 20.4837
wactc 2.865
wactb 12.812
ttc 1171.89
ttb 500.38
ptmix 20.3617
ttmix 623.1
mixpnd 0.686144
grsvirp 12780.7
badchan (07,26)
bkgnd 374
ecodate 03.Dec.96
ecotime 15:44:46
DADSdate 97.08.18
DADStime 15:44:46
bchdate 03.Dec.96
bchtime 15:44:46
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:11:36 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (i	1831.18	1732.05	1855.07	1596.27	1552.91	1523.14	1506.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	46.05	46.96	47.68	50.33	49.26	48.6	48.5	50.92	51.08	49.91	50.28	50.93	51.4	50.14	49.74	49.14	48.31	49.55	48.5	47.13	45.19	43.57	45.8	114
80	44.84	47.64	47.86	48.97	49.15	48.94	50.42	51.33	50.28	49.39	51.07	50.34	48.87	50.57	49.71	48.99	47.64	48.66	48.81	47.66	46.38	45.03	44.27	113.86
100	47.51	48.92	48.85	49.44	49.14	50.43	49.75	49.4	49.23	50.55	49.92	51.18	50.61	49.7	50.85	50.13	48.55	49.26	47.95	47.35	46.75	46.06	45.1	114.23
130	46.84	48.72	49.63	48.4	50.22	51.86	51.95	51.33	51.27	52.56	52.07	53.15	52.99	53.06	51.93	52.64	51.74	50.64	49.12	48.22	46.78	45.41	43.78	115.75
160	48.62	51	51.28	51.93	52.2	52.74	54.28	52.03	52.81	53	53.66	53.73	53.21	54.04	53.28	53.8	52.94	53.6	50.42	49.05	47.13	44.85	42.94	116.99
200	51.67	54.12	55.33	55.63	55.63	56.81	55.68	54.7	56.54	57.67	57.84	57.14	57.52	57.85	57.9	57.05	56.18	54.4	52.21	50.52	49.02	46.29	43.09	120.2
250	52.91	54.52	54.18	53.38	54.11	55.17	56.02	56.23	56.49	56.13	55.82	55.89	56.36	55.26	55.08	55.27	54.89	53.39	52.71	50.44	48.09	45.05	41.58	119.05
320	52.14	55.48	55.53	55.44	55.43	56.2	56.54	56.78	57.64	57.93	57.85	57.42	57.33	57.25	57.17	56.68	55.68	54.21	51.62	49.42	47.07	43.88	40.5	120.22
400	52.88	55.21	55.22	55.07	56.02	56.51	56.95	57.05	57.46	57.52	57.58	57.3	57.16	56.58	56.13	55.23	53.92	52.52	52.04	49.82	46.86	43.47	38.99	119.87
500	52.63	55.54	55.5	55.91	56.28	56.87	57.44	57.28	57.69	57.67	57.82	57.48	57.09	56.75	56.53	56	54.48	52.79	50.85	48.51	45.62	41.93	37.77	120.06
630	53.9	56.05	56.58	57.08	57.42	57.59	57.97	58.16	58.51	58.6	58.1	57.91	58.14	57.77	57.45	56.89	55.23	52.69	50.48	47.87	44.34	40.64	36	120.79
800	54.72	56.41	56.83	56.86	57.21	57.35	57.51	58.4	58.53	58.29	58.53	58.31	58.29	57.69	56.88	56.19	54.61	52.15	49.89	46.54	42.91	38.95	34.21	120.67
1000	54.63	56	56.62	56.96	56.99	57.24	57.68	58.1	58.16	57.07	57.74	58.07	58.18	57.97	57.38	56.41	54.31	51.76	49.09	46	42.34	38.01	32.5	120.52
1300	53.93	55.31	55.81	55.95	56.23	56.57	56.86	57.88	57.9	57.83	57.78	57.8	57.54	57.27	56.53	55.07	53.05	50.31	48.85	45.34	41.53	36.96	31.11	119.9
1600	53.27	54.08	54.54	55.09	55.36	55.5	56.83	57.34	57.46	57.11	56.91	56.83	56.36	55.58	54.65	53.35	50.88	48	47.13	43.79	39.91	35.11	28.77	118.79
2000	51.07	51.73	52.45	52.84	53.19	53.39	54.08	56.11	55.98	55.69	55.47	55.38	54.77	53.85	52.83	51.38	48.95	45.92	44.9	41.56	37.43	32.02	25.06	117.05
2500	47.84	48.5	49.59	50.46	50.33	50.61	51.38	54.37	54	53.78	53.66	53.22	52.44	51.09	49.77	48.15	45.82	42.45	42.52	38.69	34.12	28.38	19.94	114.63
3200	42.18	43.96	45.46	45.96	45.75	45.91	46.73	51.46	51.11	50.86	50.75	50.08	49.03	47.26	45.46	43.54	40.8	37.43	38.89	34.73	29.58	22.66	0	111.03
4000	34.27	36.53	38.26	39	38.86	39.04	40.25	46.98	46.4	45.99	45.81	44.98	43.6	42.02	40.35	38.12	34.56	30.41	33.47	28.71	21.95	0	0	106.7
5000	21.51	25.28	27.73	28.72	28.73	29.45	31.38	40.69	40.04	39.55	36.9	38.1	37.08	35.05	32.57	29.56	25.17	18.48	25.41	17.05	0	0	0	99.58
6300	0	0	0	0	0	0	8.34	31.62	30.53	30	29.05	27.94	26.35	23.26	18.31	-2.64	0	0	0	0	0	0	0	88.19
8000	0	0	0	0	0	0	0	8.83	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68.21
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	84.2	66.08	66.45	66.72	67.01	67.39	67.83	68.39	68.66	68.67	66.6	66.49	68.32	68.01	67.53	66.84	65.45	63.9	62.2	60.07	57.79	55.23	53.21	131.04
PNL	75.15	76.54	77.06	77.49	77.74	78.03	78.49	78.95	78.96	78.81	78.66	78.51	78.02	77.31	76.42	75.24	73.22	70.86	68.1	65.01	61.64	57.45	52.11	76.87

NASA Lewis Allison AST Jet Noise Test 1996

rdg	380
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	950.28
m01	0.30018
pamb	14.1987
tamb	501.492
rhumid	76.22
winds1	0
nprc	1.545
nprb	1.612
ptc	21.937
ptb	22.8883
wactc	3.108
wactb	15.146
ttc	1323.01
ttb	503.237
ptmix	22.7263
ttmix	642.815
mixpnd	0.764477
grsvixp	17348.4
badchan	[07,28]
bkgnd	374
escdate	03.Dec.96
esctime	16:03:22
DADSdate	03.Dec.96
DADStime	16:03:22
btchdate	03.Dec.96
btchtime	16:03:22

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:14:11 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance (i	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.58	71.87	72.3	72.57	72.78	72.95	73.07	73.16	73.22	73.25	73.27	73.31	73.51	73.98	74.81	75.39	75.25	75.92	77.36	78.81	80.21	81.83	84.14	117.9
100	71.93	72.6	73	73.23	73.38	73.51	73.64	73.82	74.05	74.34	74.72	75.03	74.92	74.79	75.06	75.8	76.81	77.95	79.12	80.3	81.52	82.82	84.75	118.98
130	72.89	73.16	73.23	73.25	73.32	73.45	73.6	73.76	73.9	73.98	73.99	74.02	74.26	74.84	75.84	77.1	78.29	79.27	80	80.58	81.46	82.95	84.89	119.25
160	73.7	74.1	74.47	74.79	75.03	75.17	75.21	75.17	75.15	75.29	75.68	76.38	76.98	76.78	76.73	77.51	78.53	79.75	81.01	82.11	83.04	83.91	84.75	120.45
200	73.82	74.71	75.88	76.44	76.17	75.99	76.44	77.09	77.33	77.28	77.46	78	78.4	78.7	78.97	79.35	79.78	80.49	81.07	80.99	81.06	81.75	82.39	121.13
250	76.2	77.51	77.41	76.96	76.84	77.07	77.59	78.31	78.71	78.91	79.1	78.65	79.36	79.84	80.72	81.69	81.7	82	82.61	82.98	83.16	83.5	83.57	122.67
320	79.34	80.6	79.86	78.82	78.62	78.98	79.5	79.93	80.4	80.6	80.19	80.17	80.99	81.74	82.53	83.12	83.05	83.12	83.24	82.7	81.87	81.25	80.87	123.91
400	78.93	80.88	80.99	80.7	80.87	81.3	81.67	81.84	82.02	82.2	82.25	82.46	82.59	82.7	82.74	82.92	83.34	82.87	81.96	81.45	81.03	80.42	79.85	124.83
500	80.14	82.32	82.26	81.7	81.72	82.27	82.87	82.62	83.09	83.47	83.16	83.43	84	84.8	85.07	85.33	85.18	84.65	83.85	82.9	82.05	81.45	80.59	126.23
630	81.22	82.68	82.4	82.32	82.71	83.22	83.66	83.85	84.01	84.15	84.1	84.25	84.67	85.16	85.36	85.16	84.71	84.11	83.31	82.27	81.24	80.46	79.49	126.66
800	82.26	83.61	83.72	83.85	83.83	84.15	84.83	85.06	85.16	85.21	84.96	85.05	85.3	85.6	85.64	85.24	84.44	83.42	82.44	81.85	81.32	80.54	79.7	127.35
1000	84.39	85.64	85.57	85.02	84.78	84.99	85.26	85.52	85.88	86	86.13	86.19	86.38	86.67	86.58	85.99	85.18	84.24	83.24	82.13	81.06	80.3	79.95	128.31
1300	85.28	86.38	86.22	85.75	85.54	85.62	85.77	85.76	85.93	86.27	86.43	86.5	86.64	87.18	87.4	86.85	85.89	84.83	83.66	82.43	81.41	80.77	80.61	128.82
1600	86.11	85.93	85.65	85.76	86.03	86.34	86.43	86.47	86.81	86.94	87.13	87.68	88.09	88.44	88.59	88.17	86.98	85.57	84.16	82.8	81.58	80.6	80.44	129.56
2000	86.38	86	85.84	85.84	85.78	86.14	86.67	86.75	87.27	87.56	87.43	87.64	88.48	88.99	88.94	88.24	86.82	85.38	84.21	83.31	82.35	81.41	81.08	129.78
2500	85.64	85.47	85.8	85.97	85.86	86.14	86.37	86.36	86.73	87.02	86.93	87.24	87.92	88.19	87.95	87.34	86.31	86.22	84.11	82.96	81.9	81.11	81.09	129.33
3200	84.79	84.8	85.3	85.42	85.28	85.53	86.04	86.02	86.43	86.81	86.73	86.73	87.01	87.27	87.06	86.3	85.23	84.41	83.62	82.33	81.1	80.33	80.49	128.72
4000	83.68	83.83	84.54	84.69	84.2	84.85	85.8	85.37	85.86	86.11	86.18	86.13	85.91	85.63	85.46	85.13	84.26	83.18	82.02	80.77	79.71	79.17	79.54	127.83
5000	82.48	83.02	83.68	83.73	83.26	83.74	84.75	84.65	84.95	84.87	84.82	85.05	84.49	84.01	83.75	83.19	82.12	81.05	80.16	79.36	78.46	77.69	78.11	126.59
6300	81.43	82.22	82.78	82.61	82.19	82.64	83.52	83.45	83.91	84.05	83.57	83.38	83.03	82.58	81.98	81.15	80.09	79.06	78.22	77.46	76.77	76.34	76.99	125.31
8000	79.8	81.2	81.78	81.45	81.14	81.85	82.82	82.63	82.91	82.95	82.65	82.4	81.76	80.99	80.24	79.4	78.3	77.37	76.68	76.1	75.4	74.81	75.43	124.19
10000	77.56	78.53	78.25	78.37	79.2	79.95	79.99	79.88	80	79.88	79.62	78.81	77.92	77.43	77.01	76.5	75.64	74.67	73.78	72.91	71.98	71.2	71.8	121.25
OASPL	95.48	96.06	96.18	96.08	96	96.34	96.82	96.85	97.18	97.38	97.33	97.46	97.73	97.87	97.99	97.63	96.88	96.13	95.48	94.86	94.41	94.34	94.81	139.7

NASA Lewis Allison AST Jet Noise Test 1996

rdg	380
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test_cust	Allison
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lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	950.28
m01	0.30018
pamb	14.1987
tamb	501.492
rhumid	78.22
winds1	0
nprc	1.545
nprb	1.612
ptc	21.937
ptb	22.8683
wactc	3.108
wactb	15.146
ttc	1323.01
ttb	503.237
ptmix	22.7263
ttmix	642.815
mixpnd	0.784477
grsvixp	17346.4
badchan	(07.26)
bkgnd	374
escdate	03.Dec.96
esctime	16:03:22
DADSdate	97.08.18
DADStime	16:03:22
btchdate	03.Dec.96
btchtime	16:03:22

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date. Mon Aug 18 10:14:20 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (l	1831.16	1732.05	1655.07	1586.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	49.64	50.28	50.77	53.46	52.39	51.79	51.44	53.12	54.18	53.34	53.06	52.89
80	48.5	51.66	51.65	50.41	52.71	53.03	54.08	53.74	52.73	52.28	54.49	53.47
100	51.88	51.92	52.19	53.36	52.89	54.45	53.69	53.65	53.43	53.87	53.25	55.07
130	51.89	52.64	53.68	53.73	54.96	56.62	56.56	54.99	54.34	55.77	55.56	56.56
160	51.47	53.64	54.52	55.46	55.5	56.12	57.55	56.81	57.37	56.57	57.08	57.48
200	54.94	56.54	57.54	57.43	57.75	58.46	58.97	57.88	58.74	59.51	58.96	59.17
250	56.83	58.15	57.65	57.37	58.43	59.58	60.45	59.32	59.51	59.41	58.86	58.85
320	55.59	58.74	59.81	59.9	60.05	60.79	61.27	60.92	61.44	61.59	61.56	61.42
400	56.52	59.03	59.38	59.25	59.86	61.03	61.91	61.38	62.05	62.26	61.84	61.86
500	57.24	59.14	58.57	60.31	60.88	61.49	62.36	62.19	62.33	62.56	62.37	62.29
630	57.31	59.91	60.89	61.22	61.77	62.26	62.64	62.98	62.98	63.11	62.68	62.68
800	59.08	61.04	61.56	61.55	61.73	62.13	62.51	62.95	63.32	63.29	63.3	62.98
1000	59.25	60.63	61.26	61.44	61.76	62.38	62.75	62.71	62.9	63.1	63.08	63.27
1300	58.88	59.68	59.87	60.36	60.99	61.63	62.25	62.86	63.23	63.36	63.34	63.46
1600	57.92	58.27	59.05	59.82	60.2	60.74	61.12	62.45	62.84	62.88	62.48	62.41
2000	55.53	56.06	57.29	57.89	58.09	58.56	59.26	61.09	61.51	61.73	61.18	60.86
2500	51.32	52.41	53.98	54.8	55	55.76	56.79	59.27	58.59	59.69	59.35	58.95
3200	48.13	47.64	49.42	50.16	50.16	51.14	52.34	56.45	56.62	56.81	56.41	55.86
4000	38.2	40.37	42.25	43.38	43.79	44.8	45.77	52.28	52.39	51.97	51.21	50.57
5000	26.61	29.99	32.39	33.55	34.03	35.34	36.78	45.76	46.1	45.95	44.98	43.97
6300	0	0	9.93	14.5	16.85	19.79	21.27	36.83	36.96	36.58	35.47	34.1
8000	0	0	0	0	0	0	0	21.1	20.65	19.58	16.66	5.94
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.36	70	70.6	70.92	71.34	72	72.57	72.9	73.22	73.34	73.16	73.1
PNL	79.54	80.61	81.41	81.96	82.38	83.01	83.57	83.77	84.12	84.25	83.87	83.66

distance: (l	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	54.63	53.1	52.14	51.94	52.02	54.51	52.86	52.49	51.41	50.37	53.18	117.85
80	51.54	53.27	53.55	54.22	53.9	55.66	54.63	54.07	53.3	52.47	51.47	118.61
100	54.57	53.77	54.89	55.02	55.02	56.02	55.17	54.38	53.66	53.19	52.8	119.36
130	56.33	56.43	55.74	56.9	56.15	55.44	56.07	55.84	54.96	53.58	51.8	120.5
160	57.51	58	57.64	58.58	57.61	58.08	56.02	54.55	52.8	51.39	50.31	121.32
200	59.67	60.36	60.67	60.42	59.84	58.68	57.45	56.33	55.51	53.6	50.71	123.38
250	59.45	59.86	59.98	58.88	59.39	57.92	57.82	55.8	53.42	50.47	47.05	123.2
320	61.9	61.99	61.86	61.59	60.82	59.5	58.12	54.12	52.13	49.15	45.8	124.64
400	62.14	62.27	62.19	61.29	59.91	58.08	57.33	54.99	52.23	49.21	44.74	124.77
500	62.22	61.82	61.28	60.4	58.78	56.99	56.05	53.61	50.66	47.16	42.62	124.74
630	62.63	62.74	62.18	60.79	59.13	57	54.72	52.36	49.65	46.11	41.05	125.27
800	62.94	62.75	62.08	60.85	59.02	58.71	54.63	51.72	48.37	44.41	39.51	125.45
1000	63.01	62.99	62.81	61.67	59.33	56.69	54.08	51.05	47.52	43.58	38.4	125.51
1300	63.58	63.61	62.9	61.2	58.76	55.92	53.79	50.41	46.58	41.74	36.01	125.36
1600	62.81	62.4	61.25	59.8	57.25	54.59	52.92	49.78	45.93	40.93	34.4	124.41
2000	60.71	60.23	59.18	57.31	54.82	52.29	51.6	48.03	43.73	38.54	31.62	122.62
2500	58.25	57.39	56.14	54.36	51.84	48.86	49.36	45.35	40.52	34.8	26.98	120.16
3200	54.69	53.12	51.52	49.57	46.86	43.51	45.28	40.9	35.63	29.15	18.74	116.52
4000	49.29	47.9	46.08	43.44	39.97	36.13	39.74	35.16	29.18	19.43	0	111.26
5000	42.37	40.28	37.82	34.83	30.92	26.08	31.71	26.19	15.91	0	0	104.32
6300	31.83	28.93	25.44	20.38	7.7	0	16.85	0	0	0	0	94.35
8000	0	0	0	0	0	0	0	0	0	0	0	76.65
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	73.15	73.06	72.61	71.75	70.32	68.93	67.54	65.75	63.9	61.9	60.31	135.79
PNL	83.52	83.14	82.27	80.93	78.9	76.7	74.24	71.14	67.76	64.1	59.62	82.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	381
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1015.21
m01	0.30077
pamb	14.1987
tamb	501.508
rhumid	78.36
winds1	0
nprc	1.741
nprb	1.819
ptc	24.7199
ptb	25.8274
wactc	3.509
wactb	17.48
ttc	1407.98
ttb	504.652
ptmix	25.6423
ttmix	655.673
mixpnd	0.808664
gravixp	21308.2
badchan	(07,26)
bkgnd	374
escdate	03.Dec.96
esctime	16:10:17
DADSdate	03.Dec.96
DADStime	16:10:17
bichdate	03.Dec.96
bichtime	16:10:17

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:16:55 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.93	74.04	73.68	73.57	74.45	75.74	76.77	77.07	76.76	76.36	76.27	76.89	77.78	78.6	79.2	79.6	80.03	80.83	81.56	82.91	84.66	86.94	90.12	121.98
100	75.54	76.24	76.67	76.96	77.18	77.3	77.37	77.36	77.26	77.12	76.95	77.45	79.58	80.06	79.92	80.62	81.87	83.36	84.91	86.44	87.97	89.7	91.95	124.13
130	76.1	76.78	76.91	76.8	76.62	76.43	76.28	76.23	76.83	77.47	76.86	76.99	78.02	79.21	79.79	80.19	81.32	82.83	84.33	85.6	86.75	88.06	89.94	123.27
160	78.14	78.04	78.94	78.98	78.48	77.93	77.72	78.1	78.54	79.07	79.9	80.21	80.3	80.74	81.91	83.3	83.99	84.53	85.31	86.33	87.48	88.76	90.14	124.78
200	77.37	79.15	79.71	79.93	80.22	80.52	80.72	80.73	80.85	81.00	81.18	81.83	81.86	82.96	83.72	83.98	84.72	85.71	86.48	86.78	87.06	87.79	88.8	125.78
250	80.11	81.2	81.42	81.16	80.78	80.77	81.26	81.85	82.27	82.68	83.26	83.68	84.02	84.39	85.21	86.24	87.13	87.83	88.33	88.82	88.54	88.24	88.36	127.37
320	81.65	82.96	82.69	82.17	82.2	82.65	83.18	83.48	83.49	83.28	82.95	83.41	84.59	84.77	85.49	86.63	86.67	86.98	87.57	87.51	87.22	87.07	86.86	127.49
400	83.28	84.42	84.2	83.66	83.54	84.21	85.23	85.47	85.43	85.58	85.77	85.99	86.54	86.83	87.31	87.87	87.83	87.84	88.08	88.14	87.57	86.37	85.28	128.96
500	84.32	85.76	86.52	84.93	84.72	84.87	85.2	85.54	85.91	86.36	86.67	86.65	86.82	87.37	87.83	88.02	88.12	88.32	88.35	87.75	86.73	85.66	84.86	129.42
630	85.06	86.8	86.66	86.52	86.4	86.49	86.8	86.93	86.95	86.94	86.83	87.24	87.95	88.56	88.76	88.47	87.83	87.33	87.09	87	86.42	85.19	84.21	130.06
800	87.12	88	87.44	86.9	86.61	86.82	87.48	87.94	88.04	88.21	88.53	89.07	89.48	90.32	90.51	89.6	88.43	87.62	87.06	86.37	85.4	84.32	83.62	131.09
1000	88.26	89.1	89.31	88.92	88.39	88.26	88.89	89.17	89.54	90.14	90.8	91.13	90.91	91.06	90.93	90.06	88.62	87.81	87	86.2	85.18	83.98	83.43	132.33
1300	89.85	89.97	89.8	89.56	89.05	88.84	89.3	90.04	90.54	90.84	91.33	91.82	92.04	92.62	92.48	91.18	89.65	88.35	87.4	86.72	85.76	84.44	83.79	133.21
1600	90.59	90.24	90.28	90.26	90.03	89.96	90.51	91.26	91.59	91.82	92.54	93.42	94.21	94.51	94.07	92.68	90.52	88.82	87.72	86.79	85.92	85.18	84.91	134.45
2000	91.37	91.36	91.36	90.84	90.46	90.45	90.88	91.44	91.83	92.47	93.68	94.39	94.78	95.18	95	93.73	91.49	89.71	88.62	87.7	86.75	85.69	85.63	135.19
2500	91.51	91.63	91.85	91.48	90.91	90.72	91.31	92.07	92.41	92.87	93.89	94.22	94.85	95.32	94.95	93.73	91.79	89.92	88.37	87.19	86.17	85.37	85.35	135.39
3200	92.24	91.8	92.18	91.84	90.95	90.63	91.4	92.24	92.52	92.7	93.21	93.98	94.37	94.38	94.09	93.23	91.4	89.6	88.11	86.86	85.87	85.27	85.37	135.14
4000	92.13	91.92	92.62	92.23	91.18	90.79	91.53	91.94	91.99	92.42	93.27	93.63	93.5	93.11	92.76	92.12	90.59	88.94	87.48	86.2	85.14	84.48	84.83	134.76
5000	91.45	91.48	92.29	92.03	90.73	90.14	91.01	91.5	91.32	91.64	92.47	92.58	92.23	91.77	91.28	90.48	89.17	87.74	86.39	85.19	84.17	83.54	83.79	133.93
6300	90.38	90.78	91.72	91.55	90.28	89.66	90.71	91.34	91.07	91.02	91.15	91.14	90.9	90.6	90.27	89.44	87.81	86.1	84.69	83.66	82.9	82.46	83.02	133.12
8000	88.75	89.8	90.76	90.6	89.27	89.02	90.4	90.75	90.37	90.27	90.59	90.5	90.05	88.7	89.11	88.01	86.58	85.12	83.81	82.61	81.96	81.43	81.66	132.29
10000	86.9	87.17	87.59	87.98	87.74	87.34	87.49	88.03	87.68	87.31	87.91	86.82	86.44	86.7	86.61	85.83	84.53	82.74	80.95	79.72	78.83	78.21	78.52	129.6
OASPL	101.57	101.82	102.16	101.89	101.17	100.98	101.63	102.19	102.31	102.58	103.2	103.61	103.87	104.06	103.87	103.05	101.73	100.74	100.2	99.82	99.5	99.45	100.19	145.2

NASA Lewis Allison AST Jet Noise Test 1996

rdg	381
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1015.21
m01	0.30077
pamb	14.1987
tamb	501.508
rhumid	76.36
winds1	0
nprc	1.741
nprb	1.819
ptc	24.7199
ptb	25.8274
wactc	3.509
wactb	17.48
ttc	1407.98
ttb	504.652
ptmix	25.6423
ttmix	655.673
mixpnd	0.808664
gravixp	21308.2
badchan	(07,26)
bkgnd	374
escdate	03.Dec.96
esctime	16:10:17
DADSdate	97.08.18
DADStime	16:10:17
btchdate	03.Dec.96
btchtime	16:10:17

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 10:17:05 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (f	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	52.9	53.74	53.47	56.42	55.97	55.88	55.78	57.03	58.24	56.89	56.02	55.56	58.57	57.69	56.87	56.66	56.95	59.9	56.85	56.54	55.82	55.43	59.52	122.25
80	51.98	55.09	55.21	54.01	56.08	55.87	56.74	57.29	55.64	54.62	56.86	56.56	56.27	58.05	57.88	57.86	57.49	59.29	60.4	60.19	59.77	59.29	58.74	123.39
100	55.03	55.59	55.7	56.57	55.88	57.21	58.05	56.11	56.42	57.18	56.15	58.32	58.2	57.93	59.7	60.01	59.72	60.68	59.51	59.4	58.95	58.29	57.61	123.61
130	54.43	56.28	57.83	57.75	58.82	60.01	39.77	57.92	57.79	59.79	59.65	60.47	59.59	60.32	60.58	61.59	61	60.33	60.35	60.08	59.4	58.47	57.08	124.78
160	55.13	58.02	58.52	59.46	60.12	60.47	61.26	60.46	60.8	60.42	60.65	61.49	61.48	62.41	62.28	63.5	63.48	64.01	61.43	60.31	58.83	57.42	56.58	126.12
200	58.81	60.07	61.1	61.24	61.54	62.11	62.55	61.42	62.33	62.85	63.17	63.37	63.89	63.9	64.18	64.36	63.84	62.77	63.22	61.99	60.73	58.32	55.37	127.44
250	59.02	61.02	60.83	60.17	61.12	62.36	63.92	62.86	62.64	62.29	62.2	62.53	62.91	63.1	63.82	64.38	63.8	62.87	62.19	60.6	58.89	56.53	53.23	127.02
320	60.29	62.47	62.77	63.02	62.91	63.48	63.81	64.54	64.94	65.1	64.94	64.84	65.28	64.95	64.67	64.45	63.86	63.18	62.22	60.81	58.61	55.08	51.24	128.16
400	60.55	62.47	63	63.15	63.77	64.34	65.08	64.28	64.71	66.08	65.18	64.91	65.03	65.3	65.34	64.29	62.74	61.34	61.72	59.83	56.9	53.38	49.1	128.06
500	60.95	63.37	63.58	63.65	63.67	64.03	65.1	65.27	65.26	65.34	65.43	65.92	66.11	66.46	66.15	64.72	62.82	61.11	60.04	58.35	55.82	51.89	47.18	128.41
630	62.56	64.36	64.5	64.66	65.03	65.42	65.99	65.83	65.88	66.12	66.54	67.13	66.71	66.99	66.42	64.74	62.7	60.58	59.27	56.89	53.75	49.88	44.91	128.99
800	62.74	64.55	65.32	65.51	65.3	65.33	66.01	66.61	67.05	67.72	68.17	68.13	67.88	67.71	67.2	65.44	62.71	60.14	58.47	55.79	52.41	48.13	43.02	129.69
1000	63.67	64.5	65.09	65.37	65.38	65.8	66.73	66.96	67.54	67.66	68.2	68.72	68.92	68.93	67.89	65.93	62.99	60.08	57.74	55.34	51.67	47.21	41.54	130.12
1300	63.56	63.94	64.97	65.48	65.58	65.82	66.48	67.64	68	68.4	69.02	69.53	69.67	69.65	68.8	66.6	63.29	60.11	57.41	54.4	50.94	46.43	40.61	130.8
1600	63.05	64.05	64.68	64.89	64.94	65.21	65.95	67.12	67.54	68.17	69.09	69.39	69.56	69.12	67.9	65.73	62.83	59.35	57.26	54.16	50.32	45.43	38.97	130.19
2000	61.35	62.46	63.6	63.78	63.51	63.54	64.54	66.78	67.1	67.26	67.74	67.99	68.09	67.64	66.43	64.27	60.86	57.37	55.89	52.25	47.97	42.68	35.85	128.92
2500	59.01	59.8	61.3	61.93	61.56	61.5	62.39	65.5	65.7	65.7	66.03	66.18	65.6	64.65	63.33	61.28	58.22	54.61	53.82	49.87	45.27	39.58	31.8	126.78
3200	54.71	55.97	57.78	58.08	57.55	57.54	58.65	62.99	62.95	63.11	63.68	63.31	62.31	60.76	59.08	56.9	53.69	49.98	50.71	46.3	41.07	34.45	25.29	123.54
4000	47.18	48.79	51.18	51.98	51.43	51.38	52.73	59.12	58.82	58.84	59.03	58.45	57.15	55.68	53.8	51.31	47.54	43.08	45.75	40.87	34.85	27.01	3.39	118.81
5000	35.71	38.48	41.28	42.53	42.18	42.53	44.34	53.57	53.25	52.93	52.53	51.78	50.39	48.57	46.39	43.28	39.05	34.01	38.15	32.48	25.02	0	0	111.95
6300	15.62	21.55	25.53	27.37	27.72	28.59	29.94	44.89	44.39	43.82	43.5	42.24	40.33	38.13	35.18	31.05	25.69	18.57	27.96	19.45	0	0	0	102.35
8000	0	0	0	0	0	0	0	30.41	29.81	28.31	27.64	23.9	20.28	18.14	4.55	0	0	0	0	0	0	0	0	88.21
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	72.8	74.24	74.89	75.14	75.25	75.62	76.36	77.09	77.38	77.65	78.07	78.34	78.36	78.23	77.6	76.34	74.53	73.26	72.27	70.83	69.15	67.22	66.13	140.37
PNL	84.66	85.92	86.72	87.01	87.05	87.35	88.14	88.96	89.2	89.38	89.78	89.96	89.87	89.48	88.51	88.79	84.1	81.47	78.97	76.08	72.9	69.15	65.16	87.64

100%L, 16UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	101
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ACOU
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	582.44
m01	0.0605
pamb	14.2885
tamb	504.373
rhumid	66.92
winds1	0
nprc	1.171
nprb	1.212
ptc	16.7318
ptb	17.3177
wactc	1.213
wactb	10.41
ttc	1103.35
ttb	496.334
ptmix	17.2585
ttmix	559.683
mixpnd	0.48491
grsvixp	6537.24
badchan	(26)
bkgnd	95
escdate	18.Nov.96
esctime	15:49:23
DADSdate	97.08.19
DADStime	15:49:23
btchdate	18.Nov.96
btchtime	15:49:23

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Tue Aug 19 23:23:29 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	63.57	64.3	64.89	65.38	65.79	66.15	66.48	66.81	67.16	67.55	67.99	68.48	69	69.54	70.09	70.63	71.14	71.63	72.07	72.47	72.86	73.28	73.98	111.84
100	62.47	63.85	64.82	65.41	66.04	66.55	66.97	67.31	67.8	67.86	68.12	68.4	68.72	69.11	69.59	70.17	70.87	71.69	72.55	73.28	73.8	74.08	74.26	112
130	65.4	65.63	65.78	65.9	66.02	66.16	66.35	66.61	66.96	67.41	67.99	68.68	69.45	70.25	71.06	71.82	72.53	73.13	73.59	73.82	73.78	73.52	73.2	112.58
160	65.13	65.74	66.25	66.68	67.07	67.43	67.79	68.16	68.57	69.03	69.54	69.72	69.65	70.12	71.12	71.41	71.35	71.35	71.49	71.78	72.25	72.86	73.39	112.43
200	66.16	66.79	67.26	67.68	68.02	68.35	68.69	69.07	69.53	70.08	70.73	71.3	71.86	71.96	72.32	72.71	73.02	73.14	73.04	72.72	72.24	71.7	71.33	113.58
250	69.01	69.79	70.44	71.01	71.52	72	72.47	72.96	73.5	74.09	74.76	75.49	76.21	76.9	77.46	77.71	77.74	77.56	77.17	76.53	75.65	74.58	73.48	117.79
320	68.72	69.56	70.12	70.49	70.73	70.95	71.26	71.76	72.41	72.79	73.23	73.83	74.48	75.1	75.46	75.49	75.42	75.17	74.67	73.95	73.07	72.12	71.32	116.05
400	66.94	68.1	69.08	69.79	70.21	70.69	71.44	72.37	73.13	73.68	74.29	74.94	75.52	75.91	76.05	75.9	76.42	74.63	73.64	72.58	71.55	70.65	69.95	116.28
500	67.67	68.79	69.83	70.33	71.02	71.58	72.02	72.46	72.83	73.17	73.74	74.53	75.43	76.31	76.95	77.02	76.72	75.89	74.64	73.21	71.62	70.6	69.7	116.71
630	66.97	68.63	69.85	70.59	71.06	71.42	71.78	72.27	72.78	73.26	73.72	74.33	75.08	75.8	76.38	76.17	75.32	73.97	72.53	71.22	70.11	69.2	68.5	116.13
800	67.67	69.28	70.17	70.49	70.46	70.91	71.85	72.44	73.22	73.63	74.34	74.44	74.53	75.31	76.17	75.81	74.56	72.76	71.06	69.74	68.89	68.36	67.6	115.91
1000	67.19	68.58	69.32	69.76	70.15	70.54	71.01	71.62	72.46	73.11	73.69	73.99	74.21	74.93	75.58	75.07	73.51	71.37	69.9	68.99	68.12	67.02	66.09	115.26
1300	66.09	67.55	68.37	68.78	69.11	69.56	70.11	70.7	71.31	71.95	72.61	72.88	73.02	73.88	74.95	74.53	72.96	70.88	69.43	68.47	67.48	66.41	65.46	114.35
1600	65.55	66.74	67.25	67.57	67.93	68.4	68.94	69.49	70.13	70.78	71.26	71.52	71.98	73.29	74.76	74.29	72.73	70.53	68.94	67.8	66.74	65.57	64.48	113.54
2000	64.7	65.77	66.23	66.63	67.2	67.71	68.24	68.76	69.44	69.94	70.31	70.52	70.99	72.18	73.05	72.4	70.89	69.15	67.59	66.22	65.02	63.91	62.99	112.35
2500	64.01	65.12	65.57	65.87	66.12	66.41	66.84	67.42	68.13	68.74	69.16	69.32	69.76	70.84	71.43	70.78	69.05	67.41	66.05	64.81	63.65	62.55	61.53	111.02
3200	63.3	64.57	65.23	65.77	66.06	66.35	66.94	67.47	67.95	68.27	68.7	69.02	69.2	69.87	70.56	69.61	67.93	66.12	64.44	62.93	61.63	60.43	59.46	110.42
4000	62.06	63.4	64.24	64.9	65.42	66	66.37	66.83	67.68	68.16	68.47	68.37	68.09	68.86	69.86	68.58	66.64	64.82	63.01	61.28	59.79	58.44	57.27	109.68
5000	61.13	62.67	63.6	64.2	64.83	65.7	66.47	66.86	67.37	68.01	68.66	68.62	68.23	68.92	69.42	67.96	65.96	63.96	62	60.28	58.75	57.07	55.63	109.45
6300	60.6	62.36	63.47	64.27	65.11	66.26	67.29	67.84	68.71	68.78	69.3	69.64	69.48	70.31	70.5	68.32	66.04	64.07	62	60.05	58.2	56.02	54.21	110.24
8000	60.39	62.38	63.82	64.77	65.71	67.01	68.17	68.41	69.78	69.69	70.13	70.87	70.52	71.1	71.19	69.15	66.95	64.75	62.32	60.21	58.31	55.73	53.59	111.05
10000	59.36	60.61	62.09	63.96	65.65	66.33	66.75	67.35	68.42	68.97	69.04	69.14	69.47	70.34	71.08	69.15	66.54	63.94	61.11	58.58	56.52	54.11	52.02	110.18
OASPL	78.95	80.07	80.63	81.37	81.81	82.27	82.8	83.33	83.97	84.46	84.98	85.41	85.84	86.57	87.21	86.95	86.28	85.5	84.61	84.21	83.66	83.17	82.84	127.29

NASA Lewis Allison AST Jet Noise Test 1996

rdg	101
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	562.44
m01	0.0605
pamb	14.2885
tamb	504.373
rhumid	66.92
winds1	0
nprc	1.171
nprb	1.212
ptc	16.7318
ptb	17.3177
wactc	1.213
wactb	10.41
ttc	1103.35
ttb	498.334
ptmix	17.2565
ttmix	559.683
mixpnd	0.46491
grsvixp	6537.24
badchan	(26)
bkgnd	95
escdate	18.Nov.96
esctime	15:49:23
DADSdate	97.08.19
DADStime	15:49:23
btchdate	18.Nov.96
btchtime	15:49:23

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Tue Aug 19 23:23:35 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	41.79	43	43.99	44.8	45.45	45.98	46.41	46.77	47.08	47.37	47.64	47.89
100	40.65	42.32	43.69	44.79	45.67	46.35	46.86	47.24	47.49	47.66	47.74	47.78
130	43.53	44.24	44.8	45.24	45.6	45.91	46.2	46.5	46.81	47.16	47.57	48.02
160	43.18	44.28	45.2	45.95	46.58	47.12	47.58	47.96	48.36	48.71	49.05	48.98
200	44.08	45.21	46.12	46.84	47.44	47.94	48.38	48.8	49.21	49.66	50.14	50.46
250	46.74	48.03	49.1	50	50.76	51.41	51.99	52.52	53.02	53.51	54	54.47
320	46.22	47.59	48.58	49.29	49.8	50.2	50.62	51.16	51.77	52.04	52.3	52.64
400	44.07	45.78	47.2	48.26	48.95	49.62	50.49	51.46	52.18	52.62	53.03	53.42
500	44.38	46.07	47.37	48.44	49.41	50.16	50.72	51.2	51.52	51.75	52.12	52.64
630	43.18	45.44	47.15	48.28	49.04	49.61	50.1	50.82	51.1	51.45	51.72	52.03
800	43.33	45.58	46.99	47.71	47.98	48.65	49.52	50.38	51.11	51.59	51.89	51.68
1000	42.27	44.33	45.61	46.47	47.19	47.81	48.41	49.06	49.85	50.36	50.72	50.7
1300	40.58	42.75	44.13	44.98	45.86	46.34	47.03	47.67	48.24	48.74	49.17	49.1
1600	39.34	41.28	42.39	43.18	43.9	44.62	45.3	45.9	46.49	46.99	47.22	47.14
2000	37.63	39.5	40.59	41.49	42.43	43.2	43.89	44.48	45.1	45.44	45.56	45.39
2500	35.7	37.68	38.84	39.67	40.32	40.9	41.51	42.15	42.8	43.25	43.38	43.14
3200	33.25	35.47	36.69	38.01	38.74	39.38	40.16	40.74	41.15	41.28	41.42	41.29
4000	29.23	31.71	33.41	34.78	35.81	36.75	37.34	37.9	38.66	38.91	38.85	38.2
5000	23.92	26.96	28.99	30.43	31.67	32.97	33.95	34.42	34.83	35.24	35.48	34.78
6300	0	17.15	21.7	24.24	26.2	27.89	29.23	29.86	30.58	30.26	30.27	29.82
8000	0	0	0	0	3.45	16.38	20.23	20.71	22.52	21.38	21.15	20.54
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	55.18	56.78	57.94	58.81	59.48	60.09	60.67	61.25	61.78	62.17	62.51	62.74
PNL	60.87	62.98	64.32	65.29	66.06	66.65	67.57	68.18	68.79	69.14	69.36	69.35

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.1	48.25	48.31	48.26	48.07	47.72	47.16	46.38	45.27	43.84	42.07	111.77
100	47.79	47.78	47.77	47.76	47.76	47.74	47.58	47.11	46.15	44.54	42.23	111.89
130	48.47	48.87	49.16	49.36	49.35	49.11	48.55	47.55	46.02	43.84	40.98	112.4
160	48.59	48.66	49.16	48.85	48.06	47.23	46.33	45.38	44.33	42.99	40.91	112.17
200	50.49	50.38	50.23	50.01	49.6	48.85	47.7	46.11	44.08	41.51	38.43	113.2
250	54.86	55.14	55.18	54.81	54.08	53.01	51.54	49.58	47.07	43.9	39.94	117.2
320	52.95	53.14	52.97	52.38	51.52	50.34	48.72	46.84	44.05	40.89	37.05	115.26
400	53.64	53.59	53.17	52.35	51.07	49.32	47.15	44.65	41.81	38.52	34.47	115.13
500	53.16	53.59	53.65	53.02	51.87	50.02	47.53	44.56	41.19	37.37	32.74	115.12
630	52.39	52.63	52.6	51.65	49.9	47.46	44.68	41.68	38.42	34.65	29.81	114.12
800	51.35	51.61	51.82	50.68	48.48	45.52	42.4	39.3	36.16	32.53	27.16	113.43
1000	50.49	50.68	50.67	49.33	46.76	43.39	40.41	37.58	34.21	29.69	23.7	112.23
1300	48.78	49.07	49.44	48.14	45.51	42.15	39.09	36.06	32.4	27.84	21.1	110.76
1600	47.1	47.84	48.58	47.18	44.48	40.9	37.59	34.24	30.27	25.08	17.21	109.25
2000	45.38	45.9	45.98	44.35	41.63	38.38	34.96	31.18	28.79	21.22	0	107.31
2500	43.03	43.41	43.17	41.45	38.39	35.09	31.67	27.75	23.04	14.34	0	104.88
3200	40.86	40.75	40.49	38.29	35.11	31.5	27.48	22.82	12.76	0	0	102.76
4000	37.23	37.15	37.06	34.34	30.86	26.63	21.81	7.34	0	0	0	99.64
5000	33.5	33.13	32.33	29.15	24.92	17.89	0	0	0	0	0	95.7
6300	28.57	28.03	26.37	20.56	0	0	0	0	0	0	0	90.44
8000	17.4	13.22	7.23	0	0	0	0	0	0	0	0	80.26
10000	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	62.89	63.1	63.13	62.44	61.3	59.9	58.36	56.62	54.61	52.23	49.35	125.22
PNL	69.32	69.51	69.66	68.37	66.51	64.25	61.74	59	55.65	51.5	45.68	68.27

NASA Lewis Allison AST Jet Noise Test 1996

rdg 102
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbid NATR full wedge
rigbid JER w/ external supplement
mixbid ACOU
nozbid BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 798.9
m01 0.08041
pamb 14.288
tamb 504.196
rhumid 65.73
winds1 0
nprc 1.391
nprb 1.444
ptc 19.8746
ptb 20.6319
wactc 1.961
wactb 14.886
ttc 1164.37
ttb 498.233
ptmix 20.5437
ttmix 575.772
mixpnd 0.879083
grsvixp 13459.1
badchan (26)
bkgnd 95
ascdate 18.Nov.96
asctime 16:02:47
DADSdate 97.08.19
DADStime 16:02:47
btchdate 18.Nov.96
btchtime 16:02:47
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 11:07:58 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	71.89	73.17	74.07	74.7	75.11	75.37	75.54	75.69	75.87	76.13	76.52	77.06
100	73.68	75.27	76.15	76.52	76.61	76.62	76.71	76.98	77.47	78.08	78.67	79.14
130	73.52	74.03	74.09	74.07	74.35	75.14	76.13	76.68	77	77.02	77.83	78.61
160	74.71	75.47	76.02	76.4	76.6	76.7	76.83	77.06	77.47	78.05	78.87	79.93
200	76.3	76.16	76.11	76.92	78.06	79.02	79.77	79.91	80.04	80.68	80.79	81.02
250	76.81	77.33	77.67	77.97	78.32	78.75	79.11	79.26	79.51	79.98	80.25	81.04
320	77.21	77.9	78.44	78.98	79.32	79.4	79.71	80.13	80.46	80.73	81.38	82.08
400	76.69	77.34	77.9	78.41	79.19	79.73	80.1	81.1	81.67	81.52	82.03	82.86
500	76.83	77.93	78.78	79.59	80.28	80.53	80.38	80.87	81.14	81.25	81.75	82.53
630	76.74	77.66	78.7	79.44	80.01	80.21	80.38	80.92	81.42	81.83	82.3	82.66
800	77.23	78.95	79.59	79.67	79.79	80.27	80.88	81.51	81.9	82.18	82.65	83.03
1000	77.15	79.09	79.87	80.1	80.43	80.65	81.02	81.57	81.98	82.62	83.14	83.58
1300	77.86	79.71	80.17	80.15	80.35	80.7	80.57	80.74	81.4	82.13	82.55	82.98
1600	77.07	79.01	79.48	79.79	80.07	80.36	80.56	80.63	81.09	81.65	82.32	82.93
2000	76.47	78.49	79.05	79.09	79.21	79.56	79.78	80.44	81.01	81.22	81.8	82.45
2500	75.42	77.39	78.03	78.43	78.58	78.84	79.3	79.86	80.2	80.29	81.09	81.89
3200	74.22	75.97	76.96	77.61	77.93	78.2	78.9	79.59	79.75	79.8	80.59	81.03
4000	73.19	75.21	76.01	76.54	76.78	77.38	78.31	78.92	79.24	79.28	79.69	80.12
5000	72.15	74.44	75.18	75.38	75.28	75.93	77.02	78.04	78.45	78.12	78.79	78.92
6300	70.73	73.07	73.92	74.24	74.31	74.97	76.31	77.66	78.09	77.5	77.81	77.92
8000	69.68	71.86	72.89	73.49	73.75	74.26	75.5	77.33	77.89	76.95	78.33	78
10000	67.37	69.14	70.32	71.36	72.08	72.35	72.79	74.99	75.7	74.13	76.71	74.79
OASPL	88.81	90.22	90.84	91.23	91.58	91.96	92.34	92.9	93.3	93.53	94.11	94.62

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.81	78.73	79.84	81.14	82.62	84.28	85.98	87.61	89.07	90.33	91.56	124.25
100	79.6	80.14	80.86	81.84	83.15	84.77	86.21	87.35	88.23	88.88	89.42	124.39
130	79.69	80.46	81.22	82.24	83.61	85.87	87.06	87.63	88.28	88.64	88.47	124.44
160	81	81.77	82.28	82.91	83.92	85.41	86.91	87.9	88.1	87.94	87.91	124.75
200	81.12	81.92	83.41	83.87	84.38	84.86	85.36	85.64	85.32	84.41	83.75	124.58
250	82.28	83.87	84.86	85.47	85.82	85.77	85.55	85.34	85.33	85.07	84.38	125.17
320	82.49	84.15	84.23	84.46	84.86	84.98	85.28	84.76	83.64	82.6	81.89	125.01
400	82.88	83.2	84.26	84.51	84.52	83.87	83.46	82.9	82.11	80.91	79.74	124.79
500	83.15	84.6	85.68	84.99	84.97	84.89	84.15	83.2	82.18	81.16	80.43	125.28
630	83.12	84.43	85.2	84.49	83.81	83.7	82.89	82.15	81.05	79.78	78.96	124.94
800	83.61	84.84	85.66	85.18	84.13	83.49	82.62	81.63	80.39	79.01	78.03	125.27
1000	83.69	84.81	85.65	84.41	83.25	82.66	81.96	80.97	79.81	78.78	77.95	125.24
1300	83.73	85.22	86.25	84.7	82.97	82.32	81.88	80.55	79.19	77.99	76.83	125.15
1600	83.8	85.34	85.9	84.4	82.78	81.93	80.95	80	78.97	77.78	76.63	124.89
2000	83.51	85.41	86	84.05	82.09	81.2	80.41	79.45	78.31	77.03	75.76	124.54
2500	82.92	84.85	85.23	83.43	81.4	80.13	79.02	78.12	77.12	75.93	74.75	123.8
3200	82.01	83.56	84.03	82.28	80.28	78.98	77.6	76.45	75.42	74.42	73.4	122.87
4000	80.25	81.59	82.21	80.75	78.8	77.42	75.89	74.77	73.93	72.81	71.53	121.83
5000	79	79.92	80.42	79.14	77.11	75.62	74.05	73.08	71.76	70.17	68.85	120.3
6300	77.89	78.59	78.88	77.27	74.88	73.79	72.41	71.39	69.76	67.89	66.67	119.2
8000	77.34	77.84	77.65	76.05	74.2	72.89	71.26	70.18	68.5	66.3	64.78	118.65
10000	74.57	75.51	75.49	73.87	71.6	69.84	68.06	66.46	64.91	63.32	61.85	116.27
OASPL	95.19	96.49	97.2	96.57	96.17	96.31	96.53	96.68	96.76	96.79	96.92	137.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg	102
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	796.9
m01	0.06041
pamb	14.268
tamb	504.196
rhumid	65.73
winds1	0
nprc	1.391
nprb	1.444
ptc	19.8746
ptb	20.6319
wactc	1.961
wactb	14.886
ttc	1164.37
ttb	496.233
ptmix	20.5437
ttmix	575.772
mixpnd	0.679063
gravbp	13459.1
badchan	[26]
bkgnd	95
escdate	18.Nov.96
esctime	16:02:47
DADSdate	97.06.19
DADStime	16:02:47
btchdate	18.Nov.96
btchtime	16:02:47

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 11:08:06 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	50.11	51.87	53.17	54.11	54.76	55.19	55.47	55.65	55.8	55.95	56.18	56.49
100	51.85	53.83	55.21	55.9	56.23	56.42	56.6	56.91	57.37	57.87	58.29	58.53
130	51.64	52.65	53.1	53.4	53.93	54.89	55.99	56.77	56.85	56.77	57.42	58.15
160	52.75	54.01	54.97	55.86	56.12	56.39	56.62	56.9	57.26	57.73	58.38	59.2
200	54.22	54.58	54.95	56.08	57.47	58.61	59.46	59.63	59.73	60.27	60.21	60.19
250	54.55	55.59	56.34	56.97	57.58	58.18	58.65	58.83	59.04	59.41	59.5	60.05
320	54.71	55.93	56.9	57.78	58.37	58.64	59.06	59.52	59.81	59.97	60.44	60.87
400	53.84	55.03	56.03	56.89	57.94	58.67	59.15	60.19	60.73	60.46	60.79	61.35
500	53.54	55.21	56.53	57.7	58.67	59.12	59.09	59.6	59.63	59.83	60.14	60.64
630	52.94	54.66	55.99	57.12	57.99	58.39	58.7	59.27	59.72	60.01	60.28	60.35
800	52.86	55.24	56.39	56.88	57.31	57.99	58.73	59.42	58.76	59.92	60.18	60.25
1000	52.23	54.84	56.16	56.82	57.47	58.12	58.42	59.02	59.38	59.89	60.18	60.3
1300	52.14	54.89	55.93	56.36	56.88	57.46	57.48	57.7	58.3	58.89	59.09	59.17
1600	50.85	53.54	54.63	55.4	56.03	56.57	56.92	57.04	57.45	57.86	58.29	58.54
2000	49.4	52.23	53.42	53.95	54.44	55.05	55.43	56.14	56.65	56.7	57.03	57.31
2500	47.15	49.98	51.3	52.25	52.8	53.35	53.97	54.58	54.87	54.79	55.3	55.72
3200	44.14	46.86	48.61	49.86	50.64	51.22	52.11	52.88	52.99	52.82	53.3	53.29
4000	40.33	43.46	45.22	46.47	47.25	48.16	49.31	49.97	50.23	50.08	50.12	50.04
5000	35.1	38.73	40.59	41.64	42.18	43.27	44.61	45.67	45.99	45.46	45.71	45.22
6300	27.02	31.15	33.37	34.78	35.61	36.85	38.44	39.89	40.17	39.31	38.99	38.37
8000	0	17.93	22.07	24.78	26.23	27.84	29.52	31.44	31.77	30.48	31.09	29.85
10000	0	0	0	0	0	0	0	7.21	9.73	-2.25	3.48	0
OASPL	64.86	66.38	67.44	68.23	68.93	69.5	69.93	70.42	70.75	70.98	71.29	71.6
PNL	72.06	74.53	75.78	76.66	77.33	77.95	78.54	79.14	79.47	79.51	79.89	80.16

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.91	57.43	58.08	58.77	59.55	60.37	61.08	61.5	61.48	60.88	59.64	124.17
100	58.66	58.81	59.04	59.43	60.04	60.81	61.25	61.18	60.57	59.34	57.39	124.26
130	58.7	59.07	59.34	59.77	60.64	61.85	62.03	61.37	60.52	58.97	56.26	124.23
160	59.95	60.31	60.32	60.35	60.65	61.28	61.76	61.51	60.18	58.08	55.43	124.44
200	59.96	60.35	61.34	61.19	60.96	60.57	60.02	59.04	57.15	54.23	50.85	124.17
250	60.94	62.11	62.58	62.58	62.18	61.25	59.95	58.44	56.79	54.44	50.88	124.54
320	60.98	62.19	61.73	61.32	60.96	60.14	59.33	57.44	54.61	51.34	47.56	124.16
400	61.01	60.89	61.41	61	60.2	58.59	56.99	54.99	52.37	48.75	44.24	123.62
500	60.89	61.87	62.38	60.98	60.13	59.05	57.07	54.57	51.58	47.97	43.5	123.65
630	60.42	61.24	61.39	59.94	58.38	57.16	55.03	52.63	49.41	45.29	40.33	122.86
800	60.4	61.22	61.31	60.06	59.05	56.25	53.95	51.18	47.64	43.15	37.59	122.68
1000	59.98	60.56	60.73	58.68	56.52	54.7	52.49	49.58	45.91	41.44	35.56	122.16
1300	59.47	60.4	60.73	58.32	55.52	53.55	51.47	48.12	44.06	39.14	32.44	121.48
1600	58.93	59.87	59.68	57.27	54.49	52.27	49.56	46.41	42.47	37.24	29.97	120.6
2000	57.86	59.12	58.92	55.99	52.81	50.41	47.74	44.38	40.05	34.29	26.13	119.43
2500	56.2	57.42	56.94	54.07	50.71	47.79	44.81	41.03	36.43	30.14	20.94	117.6
3200	53.67	54.43	53.94	50.98	47.51	44.34	40.6	36.33	31.14	24.25	0	115.1
4000	49.5	49.94	49.4	46.56	42.86	38.23	34.89	30.1	24.15	9.17	0	111.51
5000	44.5	44.24	43.43	40.49	36.28	32.05	26.92	20.1	0	0	0	106.56
6300	37.34	36.73	35.29	31.54	26.1	20.01	-1.94	0	0	0	0	99.79
8000	27.62	26.11	23.19	16.25	0	0	0	0	0	0	0	90.6
10000	0	0	0	0	0	0	0	0	0	0	0	66.93
OASPL	71.81	72.54	72.74	71.89	71.22	70.81	70.27	69.41	68.17	66.45	64.17	135.23
PNL	80.41	81.29	81.12	79.07	76.84	75.26	73.54	71.37	68.64	65.26	60.92	79.44

NASA Lewis Allison AST Jet Noise Test 1996

rdg	103
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	858.85
m01	0.05998
pamb	14.283
tamb	504
rhumid	69.11
winds1	0
nprc	1.54
nprb	1.614
ptc	21.9958
ptb	23.0528
wactc	2.116
wactb	17.481
ttc	1314.42
ttb	500.541
ptmix	22.9366
ttmix	588.42
mixpnd	0.720472
grsvixp	16791.7
badchan	(26)
bkgnd	95
escdate	18 Nov 96
esctime	16:12:58
DADSdate	97.08.19
DADStime	16:12:58
blchdate	18 Nov 96
blchtime	16:12:58

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 16:05:25 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	75.89	76.58	77.41	78.17	78.87	79.5	80.07	80.58	81.03	81.42	81.74
100	78.29	79.08	79.63	80.01	80.26	80.45	80.63	80.83	81.1	81.46	81.97
130	78.41	79.22	79.77	80.12	80.31	80.41	80.47	80.55	80.69	80.93	81.32
160	79.7	80.07	80.47	80.88	81.3	81.74	82.18	82.83	83.07	83.49	83.9
200	80.7	81.48	82.04	82.43	82.72	82.96	83.17	83.41	83.71	84.09	84.59
250	81.57	82.01	82.36	82.63	82.88	83.13	83.42	83.78	84.22	84.78	85.46
320	81.88	82.49	83	83.43	83.75	83.92	84.03	84.16	84.38	84.75	85.33
400	80.85	81.88	82.41	83.12	83.82	84.44	84.75	85.05	85.52	86.13	86.83
500	81.85	82.85	83.15	83.49	83.77	84.06	84.4	84.81	85.31	85.92	86.68
630	81.61	82.67	83.43	83.95	84.21	84.29	84.48	84.98	85.79	86.36	86.9
800	82.36	83.39	83.92	84.2	84.41	84.71	85.24	85.86	86.31	86.58	87.01
1000	82.97	84.43	85.1	85.33	85.41	85.47	85.58	85.9	86.32	86.8	87.36
1300	83.57	85.16	85.26	85.02	84.82	84.87	85.17	85.58	85.99	86.46	87.23
1600	83.58	85.47	85.24	84.78	84.72	85.05	85.57	86.13	86.59	87.09	87.81
2000	82.61	84.08	84.46	84.76	85.03	85.26	85.54	85.8	86.17	86.65	87.49
2500	81.31	83.06	83.75	84.22	84.55	84.74	85.07	85.36	85.7	86.24	87.11
3200	80.16	81.86	82.87	83.24	83.72	84.23	84.78	85.18	85.45	85.82	86.51
4000	79	80.84	81.7	82.32	82.89	83.26	83.8	84.43	84.86	84.98	85.68
5000	77.92	79.86	80.5	80.75	81.01	81.85	82.71	83.32	83.68	84.02	84.7
6300	76.74	78.94	79.47	79.77	79.94	80.8	81.96	82.62	83.04	83.26	83.44
8000	75.44	77.87	78.58	78.9	79.25	80.26	81.39	82.05	82.52	82.8	83.13
10000	73.39	75.29	75.73	76.73	77.51	78.48	78.89	79.59	80.19	80.38	80.52
OASPL	94.14	95.42	95.89	96.16	96.43	96.76	97.15	97.57	97.99	98.42	99.03

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	82.03	82.37	82.85	83.55	84.56	85.93	87.68	89.64	91.57	93.31	94.77	96.06	128.37
100	82.62	83.45	84.45	85.63	87	88.55	90.27	91.96	93.42	94.52	95.18	95.56	129.72
130	81.88	82.64	83.65	84.92	86.47	88.32	90.42	92.46	94.08	95.02	95.13	94.46	129.76
160	84.34	84.89	85.64	86.84	87.86	89.24	90.71	92.11	93.25	93.96	94.17	94.01	129.98
200	85.22	85.98	86.82	87.73	88.65	89.56	90.4	90.99	91.11	90.68	90.03	89.81	129.41
250	86.26	87.19	88.12	89.03	89.87	90.58	91.12	91.43	91.46	91.19	90.64	90.02	130.16
320	86.15	87.39	88.85	89.4	90.07	90.7	90.95	90.73	90.07	89.03	87.93	87.24	129.99
400	87.29	87.63	88.82	89.73	89.95	89.84	89.8	89.05	88.18	87.13	86.05	85.14	129.78
500	87.49	88.08	88.73	89.53	89.87	89.86	89.67	89.12	88.24	87.04	85.72	84.58	128.76
630	87.6	88.43	89.25	89.83	89.81	89.32	88.56	87.62	86.58	85.43	84.29	83.45	129.68
800	87.78	88.78	89.72	89.9	89.71	89.43	88.88	88.04	87.05	86.04	85.02	84.06	130
1000	88.13	89.04	89.95	90.24	89.46	88.55	87.78	87.03	86.26	85.4	84.46	83.54	130.1
1300	88.58	89.95	91.03	91	89.13	88.01	87.45	86.93	86.23	85.55	84.47	83.06	130.24
1600	88.69	89.92	91.24	91.3	89	87.75	87.09	86.54	85.89	84.95	83.78	82.63	130.37
2000	88.6	90.29	91.65	91.78	88.86	87.48	86.8	86.03	85.16	84.2	83.12	81.96	130.32
2500	88.49	90.06	91.42	91.27	88.64	87.06	86.3	85.64	84.87	83.87	82.65	81.38	129.92
3200	87.85	89.09	90.24	89.86	87.53	86.14	85.17	84.26	83.48	82.66	81.59	80.34	129.01
4000	86.94	88.15	88.9	88.85	86.58	85	83.77	82.65	81.95	81.26	80.21	78.96	127.96
5000	85.58	86.31	87.07	87.12	85.21	83.57	82.11	80.91	80.39	79.35	77.97	76.79	126.55
6300	84.08	84.95	85.55	85.21	83.27	81.58	80.3	79.06	78.5	77.12	75.26	74.01	125.22
8000	83.47	83.79	84.03	83.64	81.85	80.8	79.13	77.66	76.76	75.06	72.95	71.55	124.3
10000	80.09	80.49	80.97	80.9	79.53	77.66	76	74.34	73.25	71.66	69.79	67.74	121.63
OASPL	99.91	100.95	101.96	102.26	101.53	101.4	101.59	101.9	102.25	102.48	102.52	102.48	142.59

NASA Lewis Allison AST Jet Noise Test 1996

rdg	103
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	856.85
m01	0.05996
pamb	14.263
tamb	504
rhumid	69.11
winds1	0
nprc	1.54
nprb	1.614
ptc	21.9958
ptb	23.0526
wactc	2.116
wactb	17.481
ttc	1314.42
ttb	500.541
ptmix	22.9386
ttmix	588.42
mixpnd	0.720472
grsvxp	16791.7
badchan	(26)
bkgnd	95
escdate	18.Nov.96
esctime	16:12:58
DADSdate	97.06.19
DADStime	16:12:58
blchdate	18.Nov.96
blchtime	16:12:58

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Tue Aug 19 16:05:34 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	53.91	55.29	56.51	57.59	58.52	59.33	60	60.54	60.96	61.24	61.4	61.45	61.47	61.55	61.77	62.18	62.85	63.78	64.73	65.46	65.73	65.32	64.14	128.29
100	56.47	57.74	58.7	59.39	59.89	60.25	60.52	60.78	60.99	61.28	61.59	62.01	62.52	63.12	63.61	64.59	65.44	66.31	67	67.25	66.86	65.64	63.52	129.57
130	56.53	57.84	58.79	59.46	59.69	60.16	60.33	60.44	60.55	60.69	60.9	61.21	61.66	62.26	63.04	64	65.14	66.4	67.43	67.82	67.25	65.45	62.27	129.53
160	57.74	58.61	59.41	60.14	60.81	61.42	61.97	62.45	62.85	63.17	63.42	63.6	63.83	64.18	64.69	65.3	65.97	66.59	66.97	66.87	66.05	64.31	61.54	129.65
200	58.62	59.9	60.87	61.6	62.14	62.54	62.86	63.14	63.4	63.68	64	64.39	64.82	65.25	65.65	65.87	66.15	66.12	65.66	64.51	62.49	59.85	56.93	128.99
250	59.31	60.27	61.03	61.63	62.13	62.56	62.96	63.36	63.76	64.2	64.71	65.28	65.85	66.37	66.77	66.99	66.95	66.6	65.64	64.56	62.65	60.01	56.52	129.51
320	59.38	60.51	61.46	62.24	62.81	63.17	63.39	63.55	63.74	63.99	64.39	64.95	65.86	66.88	66.91	66.93	66.79	66.11	64.78	62.75	60	56.68	52.95	129.12
400	57.99	59.34	60.54	61.61	62.57	63.36	63.8	64.14	64.57	65.06	65.58	65.78	65.78	66.5	66.86	66.41	65.49	64.3	62.58	60.28	57.41	53.95	49.68	128.58
500	58.56	59.94	60.91	61.61	62.17	62.66	63.11	63.56	64.01	64.51	65.07	65.61	65.83	66.01	66.24	65.88	65.03	63.81	62.02	59.59	56.43	52.5	47.64	128.14
630	57.82	59.47	60.72	61.63	62.18	62.46	62.76	63.32	64.09	64.54	64.88	65.29	65.73	66.05	66.02	65.25	63.66	62.01	59.75	57.06	53.8	49.81	44.84	127.59
800	58	59.67	60.71	61.39	61.91	62.43	63.09	63.77	64.18	64.31	64.52	64.98	65.58	66	65.54	64.57	63.35	61.65	59.39	56.62	53.29	49.13	43.57	127.36
1000	58.05	60.18	61.39	62.06	62.46	62.73	62.86	63.34	63.71	64.07	64.4	64.65	65.32	65.69	65.31	63.71	61.82	59.64	57.57	54.87	51.52	47.16	41.18	126.97
1300	58.04	60.33	61.01	61.22	61.36	61.64	62.06	62.52	62.89	63.22	63.76	64.74	65.7	66.22	65.48	62.74	60.55	58.68	56.55	53.8	50.41	45.62	38.65	126.54
1600	57.37	60.01	60.37	60.39	60.68	61.25	61.91	62.53	62.94	63.29	63.77	64.28	65.03	65.76	65.06	61.86	59.49	57.44	55.15	52.29	48.43	43.2	35.9	126.06
2000	55.55	57.8	58.81	59.61	60.25	60.74	61.17	61.49	61.82	62.14	62.72	63.65	64.64	65.35	64.7	60.79	58.21	56.03	53.38	50.1	45.94	40.37	32.37	125.23
2500	53.02	55.86	57.03	58.04	58.77	59.25	59.74	60.07	60.36	60.74	61.34	62.32	63.35	63.99	62.96	59.25	56.37	53.97	51.23	47.78	43.19	36.9	27.8	123.71
3200	50.13	52.77	54.34	55.51	56.44	57.25	57.97	58.46	58.65	58.84	59.23	59.92	60.75	61.13	59.78	56.22	53.33	50.53	47.26	43.37	38.37	31.33	20.23	121.21
4000	48.19	49.17	50.94	52.25	53.14	54.07	54.9	55.49	55.85	55.76	56.01	56.86	57.39	57.24	55.85	52.35	49.02	45.59	41.69	37.31	31.62	23.03	0	117.78
5000	40.89	44.22	45.92	47.04	47.94	49.2	50.3	50.96	51.23	51.36	51.62	51.89	51.8	51.46	50.14	46.51	42.67	38.57	33.92	28.83	20.53	0	0	112.66
6300	33.16	37.16	38.96	40.24	41.24	42.74	44.08	44.85	45.16	45.06	44.71	44.56	44.43	43.7	41.61	37.46	32.96	28.05	21.37	5.35	0	0	0	105.84
8000	19.91	26.12	28.9	30.73	32.15	33.82	35.4	36.15	36.48	36.38	35.96	35.32	34.27	32.68	29.95	24.81	18.28	0	0	0	0	0	0	96.24
10000	0	0	0	0	10.37	16.29	19.13	20.47	21.04	20.58	19.21	17	12.87	0	0	0	0	0	0	0	0	0	0	78.75
OASPL	69.69	71.3	72.27	72.97	73.53	74	74.43	74.83	75.21	75.55	75.95	76.45	76.99	77.51	77.43	76.74	76.31	75.97	75.58	74.94	73.87	72.16	69.7	140.22
PNL	77.84	80.05	81.16	82.03	82.7	83.27	83.6	84.22	84.56	84.86	85.33	86.03	86.76	87.25	86.82	84.23	82.37	80.9	79.34	77.43	74.91	71.76	67.53	85.08

NASA Lewis Allison AST Jet Noise Test 1996

rdg	104
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mxbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	902.27
m01	0.05844
pamb	14.283
tamb	504.066
rhumid	70.03
winds1	0
nprc	1.745
nprb	1.822
ptc	24.9238
ptb	26.0238
wactc	2.431
wactb	19.47
ttc	1405.65
ttb	502.736
ptmix	25.9015
ttmix	602.959
mixpnd	0.74946
gravtxp	19760.6
badchan	[23,24,26]
bkgnd	95
escdate	18.Nov.96
esctime	16:16:34
DADSdate	97.06.19
DADStime	16:18:34
blchdate	18.Nov.96
blchtime	16:18:34

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 16:54:33 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	79.2	79.94	80.73	81.51	82.25	82.93	83.5	83.95	84.23	84.32	84.26
100	82.42	83.32	84.01	84.55	84.97	85.32	85.61	85.87	86.13	86.42	86.78
130	82.58	82.9	83.15	83.36	83.54	83.71	83.89	84.1	84.34	84.64	85.03
160	84.48	84.92	85.19	85.34	85.43	85.53	85.71	86.02	86.5	87.17	88.04
200	85.07	85.63	86.03	86.32	86.54	86.72	86.92	87.15	87.46	87.66	88.36
250	84.95	85.6	86.05	86.36	86.59	86.8	87.03	87.32	87.71	88.24	88.93
320	85.81	86.38	86.73	86.92	87.01	87.09	87.21	87.42	87.79	88.35	89.14
400	85.45	85.66	86.3	86.77	87.25	87.76	88.29	88.62	89.32	89.79	90.28
500	86.28	86.78	87.1	87.31	87.47	87.62	87.82	88.12	88.53	89.12	89.86
630	86.5	87.26	87.64	87.58	87.51	88.02	88.72	89.19	89.45	89.77	90.31
800	87.14	87.71	87.95	87.98	88.02	88.28	88.59	88.98	89.55	90.19	90.91
1000	87.04	87.87	88.36	88.59	88.69	88.85	89.15	89.43	89.8	90.52	91.36
1300	87.76	88.59	88.81	88.85	88.95	89.13	89.25	89.52	89.9	90.45	91.27
1600	88.15	89.39	89.37	89.11	89.15	89.46	89.92	90.4	90.86	91.42	92.26
2000	88.21	89.25	89.52	89.52	89.58	89.69	89.84	90.11	90.64	91.43	92.6
2500	87.9	89.09	89.26	89.35	89.55	89.82	90.08	90.32	90.64	91.39	92.74
3200	87.91	89.21	89.43	89.32	89.39	89.74	90.16	90.39	90.75	91.55	92.71
4000	87.19	88.94	89.11	89.18	89.25	89.76	90.32	90.28	90.43	91.26	92.58
5000	86.45	88.62	88.43	88.04	88.02	88.83	89.8	89.98	89.64	90.4	91.79
6300	84.92	87.2	87.19	86.95	87.01	88.13	89.39	89.63	89.49	90.11	90.91
8000	83.8	85.89	86.08	85.87	85.89	87.12	88.75	89.3	89.15	89.79	90.85
10000	81.41	83.15	82.87	83.17	83.9	85.12	86.15	86.6	86.67	87.23	88.21
OASPL	99.43	100.53	100.75	100.8	100.93	101.33	101.82	102.13	102.4	103.01	103.93

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	84.24	84.48	85.19	86.55	88.64	91.21	93.97	96.85	99.01	100.89	102.22	103.1	134.88
100	87.29	88.01	88.98	90.2	91.74	93.61	95.81	98.22	100.5	102.25	103.19	103.28	136.22
130	85.59	86.42	87.6	89.21	91.28	93.58	95.97	98.23	100.14	101.53	102.29	102.54	135.8
160	89.07	90.22	91.48	92.75	94.07	95.38	96.62	97.77	98.75	99.57	100.25	101.02	135.53
200	89.04	89.82	90.75	91.8	92.97	94.16	95.26	96.17	96.82	97.17	97.24	97.23	134.23
250	89.77	90.73	91.81	92.97	94.18	95.29	96.15	96.66	96.79	96.54	95.96	95.25	134.59
320	90.09	91.12	92.18	93.17	94.04	94.71	95.11	95.19	94.98	94.46	93.76	93.1	134.02
400	90.93	91.81	92.77	93.61	94.23	94.55	94.81	94.45	93.58	92.47	91.35	90.42	134.04
500	90.67	91.57	92.58	93.22	93.7	93.97	94.1	93.7	92.84	91.71	90.48	89.36	133.62
630	91.11	92.22	93.04	93.41	93.5	93.51	92.93	92.47	91.65	90.55	89.43	88.27	133.63
800	91.89	92.98	93.78	93.8	93.44	93.17	92.95	92.29	91.19	89.97	88.81	87.98	133.86
1000	92.28	93.32	94.24	94.17	93.23	92.92	92.41	91.54	90.43	89.28	88.17	87.22	134.02
1300	92.47	93.99	95.37	94.94	93.23	92.48	92.08	91.28	90.32	89.6	89.05	88.02	134.33
1600	93.62	95.38	96.28	95.18	93.15	92.21	91.58	90.83	90.17	89.78	89.64	89.17	134.92
2000	94.36	96.28	97.18	95.9	93.37	92.01	91.3	90.53	89.76	89.25	88.91	88.35	135.28
2500	94.59	96.61	97.33	95.93	93.36	92.04	91.15	90.17	89.21	88.41	87.65	86.89	135.34
3200	94.44	96.37	97	95.46	93.17	91.93	90.8	89.68	88.69	88.02	87.57	86.6	135.18
4000	94.23	95.84	95.95	94.58	92.71	91.24	90.06	88.93	88.1	87.78	87.75	86.46	134.7
5000	93.71	95.37	95.23	93.6	91.55	90.25	88.92	87.26	86.46	87.12	88.36	86.65	133.95
6300	92.83	94.95	94.78	92.63	90.36	89.08	87.91	86.39	85.88	86.44	87.61	85.51	133.24
8000	92.66	94.41	93.98	91.87	89.62	88.59	87.42	85.55	84.84	86.09	87.82	85.23	132.66
10000	89.33	91.88	91.68	90.05	87.82	86.34	85.14	82.84	81.88	83.03	85.24	82.37	130.2
OASPL	105.28	106.85	107.47	106.87	106.16	106.28	106.72	107.32	108.09	108.88	109.44	109.62	147.84

NASA Lewis Allison AST Jet Noise Test 1996

rdg 104
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
ngbld JER w/ external supplement
mixbld ACOU
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 902.27
m01 0.05844
pamb 14.283
tamb 504.088
rhumid 70.03
winds1 0
nprc 1.745
nprb 1.822
ptc 24.9238
ptb 26.0236
wactc 2.431
wactb 19.47
ttc 1405.65
ttb 502.736
ptmix 25.9015
ttmix 602.959
mixpnd 0.74946
grsvixp 19760.6
badchan [23,24,26]
bkgnd 95
escdate 18.Nov.96
esctime 16:18:34
DADSdate 97.08.19
DADStime 16:18:34
btchdate 18.Nov.96
btchtime 16:18:34
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 16:54:43 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	57.42	58.65	59.82	60.92	61.91	62.75	63.43	63.91	64.15	64.15	63.92	63.66
100	60.6	61.98	63.06	63.93	64.8	65.11	65.5	65.8	66.03	66.21	66.4	66.67
130	60.7	61.51	62.17	62.7	63.12	63.47	63.75	63.98	64.19	64.39	64.61	64.93
160	62.5	63.46	64.14	64.61	64.94	65.22	65.5	65.84	66.28	66.85	67.55	68.33
200	62.99	64.06	64.87	65.49	65.96	66.31	66.61	66.87	67.15	67.45	67.8	68.2
250	62.69	63.86	64.73	65.37	65.85	66.23	66.57	66.99	67.25	67.67	68.18	68.77
320	63.31	64.41	65.19	65.72	66.07	66.33	66.58	66.81	67.14	67.59	68.2	68.69
400	62.58	63.54	64.43	65.25	66	66.7	67.34	67.9	68.37	68.74	69.03	69.42
500	62.99	64.06	64.85	65.43	65.66	66.21	66.53	66.86	67.23	67.7	68.25	68.78
630	62.69	64.06	64.94	65.25	65.48	66.2	67.03	67.53	67.75	67.95	68.29	68.79
800	62.77	63.99	64.75	65.18	65.53	66	66.44	66.87	67.4	67.91	68.42	69.09
1000	62.12	63.61	64.64	65.3	65.72	66.11	66.54	66.66	67.19	67.78	68.39	68.98
1300	62.22	63.76	64.56	65.05	65.49	65.9	66.15	66.47	66.8	67.2	67.8	68.66
1600	61.91	63.91	64.49	64.7	65.1	65.66	66.26	66.8	67.21	67.62	68.21	69.21
2000	61.12	62.96	63.86	64.36	64.79	65.17	65.47	65.8	66.27	66.91	67.82	69.21
2500	59.58	61.65	62.53	63.18	63.76	64.3	64.74	65.04	65.3	65.89	66.95	68.38
3200	57.8	60.07	61.07	61.57	62.08	62.73	63.33	63.84	63.96	64.57	65.42	66.89
4000	54.35	57.24	58.28	59.07	59.68	60.56	61.31	61.33	61.4	62.02	62.98	64.11
5000	49.39	52.69	53.84	54.32	54.92	56.17	57.34	57.57	57.37	57.67	58.68	59.95
6300	41.33	45.31	46.62	47.5	48.43	50.07	51.56	52.01	51.6	51.91	52.12	53.25
8000	30.02	34.56	36.65	37.91	38.8	40.66	42.79	43.49	43.11	43.36	43.7	44.5
10000	0	13.51	17.94	20.9	23.49	26.21	28.18	28.94	28.78	28.66	28.66	28.61
OASPL	74.19	75.55	76.39	76.95	77.42	77.9	78.34	78.7	79.04	79.46	80	80.72
PNL	83.49	85.39	86.28	86.89	87.44	88.03	88.56	88.9	89.17	89.67	90.46	91.53

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	63.58	63.89	64.77	66.27	68.14	70.06	71.74	72.9	73.31	72.77	71.18	134.58
100	67.06	67.64	68.38	69.32	70.5	71.85	73.28	74.33	74.59	73.64	71.24	136.06
130	65.44	66.22	67.34	68.79	70.4	71.95	73.19	73.86	73.76	72.82	70.32	135.35
160	69.16	70	70.6	71.52	72.11	72.5	72.62	72.36	71.65	70.38	68.54	135.19
200	68.66	69.17	69.73	70.29	70.75	70.97	70.84	70.22	68.99	67.06	64.36	133.76
250	69.4	70.05	70.71	71.29	71.66	71.63	71.07	69.89	68.01	65.33	61.76	133.91
320	69.59	70.21	70.67	70.9	70.8	70.28	69.24	67.84	65.43	62.52	58.81	133.1
400	69.95	70.45	70.75	70.69	70.21	69.5	67.98	65.65	62.74	59.22	54.92	132.79
500	69.31	69.86	69.92	69.71	69.14	68.24	66.6	64.2	61.12	57.27	52.45	131.93
630	69.51	69.84	69.81	68.98	68.07	68.41	64.61	62.13	58.9	54.91	49.6	131.49
800	69.77	70.04	69.45	68.31	67.1	65.71	63.62	60.74	57.22	52.95	47.55	131.2
1000	69.6	69.99	69.25	67.48	66.17	64.44	62.06	59.03	55.38	50.85	44.83	130.87
1300	69.73	70.54	69.41	66.85	65.04	63.3	60.66	57.87	54.47	50.21	43.62	130.6
1600	70.51	70.81	68.94	66.02	63.93	61.92	59.44	56.58	53.24	48.99	42.29	130.6
2000	70.62	70.89	68.82	65.29	62.73	60.54	57.87	54.68	50.98	46.15	38.72	130.19
2500	69.87	69.9	67.62	63.98	61.34	58.8	55.74	52.11	47.74	41.93	33.33	129.17
3200	68.02	67.88	65.35	61.83	59.1	56.11	52.62	48.56	43.72	37.34	27.07	127.37
4000	65	64.25	61.78	58.46	55.2	51.83	47.98	43.46	37.98	30.37	14.53	124.48
5000	60.73	59.53	56.58	52.81	49.32	45.3	40.15	34.81	29.27	20.66	0	120
6300	54.48	52.93	48.89	44.48	40.46	35.67	29.68	22.22	8.66	0	0	113.52
8000	44.79	42.5	38.15	32.97	27.97	21.14	0	0	0	0	0	104.25
10000	29.25	26.39	20.09	-2.19	0	0	0	0	0	0	0	88.87
OASPL	81.56	81.96	81.57	81.12	81.07	81.11	81.12	81	80.49	79.23	76.99	145.19
PNL	92.66	92.76	91.24	88.98	87.4	86.07	84.79	83.09	81.17	78.6	74.8	90.33

NASA Lewis Allison AST Jet Noise Test 1996

rdg 108
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engin Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld ACOU
nozbld BASE
anoz 41.226
ambtc 35.02
ambtb 78.39
scale 4
vid 474.59
m01 0.20178
pamb 14.2372
tamb 503.171
rhumid 74.55
winds1 0
nprc 1.187
nprb 1.211
ptc 16.6148
ptb 17.2412
wactc 1.126
wactb 10.12
ttc 1119.49
ttb 507.245
ptmix 17.1785
ttmix 568.546
mixpnd 0.405968
grsvtp 5337.24
badchan (26)
bkgnd 96
eecdate 18-Nov-96
eectime 16:50:33
DADSdate 97.06.19
DADStime 16:50:33
btchdate 18-Nov-96
btchtime 16:50:33
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 13:28:31 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance (f	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	57.91	57.87	58.13	58.53	58.92	59.24	59.51	59.76	60.02	60.31	60.86
100	58.45	57.38	57.33	57.82	58.47	58.99	59.27	59.41	59.66	60.2	60.97
130	57.48	58.6	59.37	59.63	60.05	60.07	59.95	59.71	59.45	59.32	59.43
160	60.33	56.8	58.27	59.78	59.93	59.76	61.14	60.4	59.9	60.81	60.79
200	59.39	61.37	62.36	63.28	63.87	63.65	63.55	63.83	63.55	64.35	64.88
250	64.37	66.35	67.4	67.9	68.02	67.98	67.94	68.04	68.37	68.85	69.53
320	64.32	66.51	67.89	68.53	68.61	66.66	69.06	69.66	69.81	70.02	70.66
400	62.75	64.71	65.72	66.36	66.84	67.37	68.03	68.71	69.23	69.65	70.1
500	64.57	66.85	67.79	68.24	68.68	69.14	69.41	69.62	69.86	70.21	70.68
630	63.59	66.18	67.24	67.59	67.78	68.11	68.72	69.59	69.91	70.07	70.43
800	64.52	67.4	68.49	67.55	68.35	68.08	68.75	69.8	70.62	71.05	71.06
1000	64.12	66.07	66.43	66.55	66.8	67.28	67.92	68.47	68.92	69.32	69.6
1300	63.73	65.41	65.62	65.86	66.33	66.92	67.53	67.94	68.16	68.39	68.65
1600	68.9	69.63	70.26	70.6	70.34	70.3	70.62	70.55	70.64	70.77	70.75
2000	71.07	69.45	69.61	68.77	69	69.12	69.14	69.81	69.29	68.18	68.36
2500	61.16	62.27	62.94	63.48	63.98	64.41	64.61	65.13	65.24	65.27	65.51
3200	62.76	63.36	64.05	64.8	65.11	65.17	65.52	65.87	65.93	65.77	65.77
4000	62.1	63.45	64.11	64.96	65.03	65.35	65.94	66.59	66.97	66.86	66.73
5000	61.67	62.82	63.6	64.19	64.45	64.98	65.64	66.15	66.12	65.97	66.27
6300	60.27	62.19	63.37	64.65	65.33	65.89	66.78	67.6	67.99	67.78	67.36
8000	59.89	62.75	63.97	65.47	66.28	66.89	67.88	68.71	68.92	68.7	68.75
10000	60.8	62.36	63.34	65.13	66.52	66.87	66.93	67.73	68.05	67.63	67.76
OASPL	77.34	78.37	79.15	79.5	79.83	80.06	80.52	81.01	81.26	81.35	81.59

distance (f	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.06	61.48	61.88	62.23	62.52	62.72	62.84	62.9	62.96	63.18	63.73	65.06	103.88
100	61.48	61.32	60.94	61.82	62.91	63.4	63.94	64.48	64.41	63.93	63.85	64.87	104.07
130	59.86	60.52	61.31	62.13	62.89	63.55	64.06	64.49	64.78	64.89	64.89	65.04	104.28
160	61.66	61.5	61.36	61.78	62.82	63.24	63.19	63.16	63.82	64.85	65.37	65.2	104.37
200	65.82	66.54	67.17	67.59	67.76	67.68	67.97	67.58	66.98	66.37	65.67	65.29	108.34
250	70.31	71.1	71.78	72.3	72.6	72.66	72.49	72.1	71.41	70.48	69.51	68.73	112.91
320	71.47	72.27	72.99	73.57	73.92	73.98	73.64	72.93	71.5	70.02	68.42	66.63	113.9
400	70.48	70.81	71.23	71.71	71.92	71.7	71.1	70.02	68.54	67	65.52	60.68	112.24
500	71.23	71.8	72.3	72.71	72.92	72.77	72.11	70.93	69.3	67.47	65.67	63.52	113.29
630	71.06	71.82	72.52	73	73.09	72.67	71.67	70.11	68.23	66.55	65.7	66.09	113.08
800	71.02	71.37	71.95	72.36	72.38	71.88	70.77	69.04	67.09	65.43	64.48	64.53	112.98
1000	69.82	70.01	70.56	71.4	71.98	71.77	70.56	68.41	66.29	64.74	63.69	63.71	111.88
1300	69.1	69.64	70.26	71.02	71.35	70.87	69.63	67.98	66.24	64.96	64.56	65.34	111.3
1600	70.95	70.77	71.02	72.07	72.75	72.76	73.06	73.49	73.49	73.34	75.03	77.74	114.45
2000	69.46	69.8	70.01	70.6	71.04	71.26	71.5	71.73	71.6	71.47	72.09	74.25	112.95
2500	66.07	66.73	67.18	67.49	67.5	66.85	65.35	63.56	61.69	60.69	60.39	61.61	108.07
3200	66.06	66.23	66.43	66.52	66.39	66	65.26	64.26	63.14	62.33	62.54	64.04	108.28
4000	66.73	66.74	66.7	66.8	67.04	67.11	66.57	66.13	65.36	64.3	63.78	64.17	108.95
5000	66.54	66.02	65.52	65.5	65.33	64.59	63.41	61.94	60.54	59.58	59.5	60.61	107.84
6300	67.58	67.54	67.01	66.66	66.25	65.22	63.57	61.7	59.6	58.27	57.77	58.39	108.87
8000	69.07	68.77	68.16	67.79	67.38	66.36	64.62	62.61	60.5	58.59	57.41	57.19	109.94
10000	67.51	67.32	67.17	67	67.09	66.37	64.02	61.77	59.64	57.63	56.36	56.21	109.15
OASPL	82.02	82.37	82.76	83.25	83.49	83.3	82.74	81.98	81.04	80.21	80.25	81.45	124.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	108
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	474.59
m01	0.20178
pamb	14.2372
tamb	503.171
rhumid	74.55
winds1	0
nprc	1.167
nprb	1.211
ptc	16.6148
ptb	17.2412
wactc	1.126
wactb	10.12
ttc	1119.49
ttb	507.245
ptmix	17.1785
ttmix	568.546
mixpnd	0.405968
grsvixp	5337.24
badchan	(26)
bkgnd	96
escdate	18.Nov.96
esctime	16:50:33
DADSdate	97.08.19
DADStime	16:50:33
btchdate	18.Nov.96
btchtime	16:50:33

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 13:28:40 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	32.89	35.17	35.59	36.51	37.36	37.8	39.69	39.71	38.13	41.16	41.16	40.84	40.19	39.35	38.44	40.37	39.31	38.37	37.39	36.48	35.27	33.78	32.06	103.34
100	35.59	34.3	37.15	36.05	36.6	38.33	40.05	39.34	36.6	38.1	38.06	39.99	40.19	40.12	39.97	39.65	41.35	40.68	39.6	38.06	36.27	34.49	32.83	103.85
130	35.87	36.72	37.43	39.23	39.29	38.79	41.1	39.6	39.15	39.89	39.12	38.6	38.59	40	40.05	40	39.25	37.82	38.2	37.76	37.25	35.36	32.46	103.71
160	36.87	38.14	39.33	40.01	42.32	42.1	43.38	40.22	39.24	40.97	41.02	41.62	42.62	42.03	41.76	41.61	42.19	41.39	39.91	38.22	37.78	35.25	32.24	105.56
200	40.04	41.77	44.13	44.57	46.29	46.16	47.57	43.55	42.82	44.62	44.62	46.12	46.35	46.47	47.17	46.7	46.01	46.21	44.84	42.97	40.41	38.89	35.45	109.83
250	43.29	45.79	47.72	48.63	48.66	48.7	48.88	47.6	48.87	49.1	50.65	51.11	52.31	52.57	53.16	52.67	52.06	50.58	48.56	46.31	43.24	39.47	35.18	114.43
320	39.69	41.96	43.09	43.95	45.1	46.19	46.77	49.07	48.71	48.47	47.98	48.14	47.82	47.47	47.23	48.84	46.68	45.45	44.14	40.28	37.01	33.63	24.95	110.56
400	41.01	43.99	45.61	46.44	47.05	47.6	48.04	47.79	48.41	48.92	49.42	49.83	49.86	50.27	50.07	49.57	48.16	46.61	43.9	41.06	37.44	33.55	26.87	112
500	39.65	42.6	44.4	45.58	46.1	46.46	47.01	48.36	48.65	49	49.43	49.74	50.02	50.04	49.91	49.31	48.18	46.03	43.35	40.05	36.25	32.42	28.54	111.72
630	40.34	43.73	45.32	44.61	45.85	45.85	46.7	47.93	48.16	48.3	48.31	48.36	48.32	48.73	48.55	47.68	48.2	44.28	41.41	37.74	34.2	30.6	26.72	110.63
800	39.1	42.08	42.8	43.27	43.72	44.53	45.31	47.72	46.42	48.47	48.19	47.69	47.55	47.43	47.52	47.26	46.08	43.57	40.05	36.23	32.25	27.67	23.35	109.89
1000	38.51	40.8	41.67	42.11	42.7	43.45	44.34	45.91	46.32	46.56	46.52	46.42	46.38	46.37	46.53	46.16	44.63	42.08	38.52	34.65	30.71	26.84	22.47	108.51
1300	38.67	41.97	43.63	45.28	45.55	46.13	47.05	44.9	45.04	45.22	45.44	45.53	45.45	45.4	45.74	45.68	44.74	43.49	42.09	40.03	37.23	35.55	32.67	108.98
1600	43.98	44.48	45.25	44.74	45.2	45.21	45.07	46.94	47.26	46.98	46.62	46.46	45.83	45.46	45.43	45.03	44.17	43.06	41.54	39.16	36.09	32.5	28.3	109.26
2000	35.19	36.27	37.26	38.05	38.65	39.19	39.52	45.58	44.88	43.29	43.02	43.73	43.16	42.37	41.64	40.52	38.61	35.74	32.12	28.1	23.93	18.36	6.38	104.86
2500	30.96	32.98	34.58	36.17	37.25	37.82	38.6	39.85	39.91	39.66	39.62	39.79	39.73	39.43	38.86	37.52	35.43	32.64	29.32	25.36	20.88	0	0	101.46
3200	30.29	32.23	33.73	35.12	35.67	36.25	36.97	39.09	39.19	38.98	38.64	38.47	38.04	37.51	36.77	35.79	34.4	32.02	29.08	25.25	19.49	0	0	100.2
4000	22.6	25.84	27.93	29.7	30.77	31.85	32.92	37.7	38	37.64	37.19	36.62	35.74	34.32	32.93	31.38	28.87	25.57	20.16	10.42	0	0	0	97.34
5000	12.15	19.34	22.14	24.45	26.07	27.29	28.5	33.63	33.61	33.37	33.25	32.82	31.75	30.39	28.91	26.92	23.71	16.69	0	0	0	0	0	93.08
6300	0	0	0	0	9.4	15.06	19.45	29.59	30.07	29.68	28.97	28.66	27.61	25.62	23.06	18.73	0	0	0	0	0	0	0	88.26
8000	0	0	0	0	0	0	0	21.04	21.22	20.38	19.49	18	14.5	-2.86	0	0	0	0	0	0	0	0	0	78.13
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	51.55	53.67	55.18	55.81	56.49	56.81	57.52	58	58.23	58.41	58.62	58.85	59.04	59.1	59.18	58.72	57.63	56.35	54.32	51.82	49.09	46.29	42.71	121.49
PNL	61.7	63.24	64.46	64.8	65.48	65.78	66.27	66.8	66.78	66.88	66.53	66.56	66.22	65.89	65.66	65.04	63.79	62.07	59.7	56.59	52.91	48	42.79	67.06

NASA Lewis Allison AST Jet Noise Test 1996

rdg	107
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nattbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	731.14
m01	0.20104
pamb	14.2447
tamb	503.256
rhumid	73.31
winds1	0
nprc	1.39
nprb	1.445
ptc	19.8001
ptb	20.5836
wactc	1.9
wactb	14.685
ttc	1184.68
ttb	506.49
ptmix	20.4938
ttmix	584.184
mixpnd	0.616995
grsvixp	12126
badchan	(26)
bkgnd	96
escdate	18.Nov.96
esctime	16:43:04
DADSdate	97.08.19
DADStime	16:43:04
btchdate	18.Nov.96
btchtime	16:43:04

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 17:29:27 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	66.21	66.52	66.87	67.23	67.6	67.97	68.34	68.71	69.07	69.42	69.76	70.09	70.46	70.91	71.47	72.17	73.02	74.03	75.2	76.46	77.77	79.22	81.19	114.67
100	68.36	69.02	69.55	69.97	70.31	70.6	70.85	71.09	71.32	71.54	71.78	72.04	72.35	72.76	73.27	73.92	74.72	75.68	76.8	77.95	79.05	80.17	81.57	116.38
130	68.04	68.88	69.29	69.45	69.45	69.39	69.32	69.3	69.38	69.59	69.95	70.48	71.16	71.97	72.89	73.89	74.97	76.12	77.32	78.44	79.41	80.29	81.31	116.06
160	69.72	69.96	70.19	70.42	70.68	70.98	71.27	71.61	71.99	72.42	72.89	73.4	73.95	74.54	75.18	75.86	76.59	77.36	78.19	78.95	79.57	80.13	80.83	117.39
200	70.36	71.25	71.89	72.35	72.65	72.84	72.98	73.12	73.33	73.63	74.07	74.64	75.24	75.74	76.04	76.24	76.49	76.69	77.46	78.02	78.37	78.5	78.5	117.76
250	71.82	72.84	73.43	73.71	73.76	73.71	73.77	74.18	74.4	74.6	75.6	75.89	76.85	77.58	78.23	78.59	78.72	78.69	78.6	78.72	79.02	79.2	78.87	119.16
320	72.41	73.5	74.17	74.48	74.49	74.45	74.66	74.99	75.32	75.72	76.29	77.03	77.83	78.54	79.06	79.33	79.38	79.16	78.62	78.05	77.57	76.96	75.97	119.67
400	72.39	73.69	74.12	74.1	74.13	74.64	75.39	76.1	76.64	76.86	76.96	77.47	78.27	78.97	79.16	79.08	79.07	78.9	77.86	77.2	76.9	75.73	74.23	119.82
500	73.28	75.21	75.74	75.69	75.91	76.54	76.66	76.84	77.25	77.61	77.85	78.05	78.44	78.98	79.5	79.7	79.48	78.99	78.15	77.11	76.01	74.96	74.15	120.44
630	73.16	74.88	75.79	76.25	76.5	76.65	76.67	76.83	77.13	77.4	77.81	78.49	79.02	79.61	79.95	79.79	79.22	78.37	77.29	76.1	75.09	74.56	73.99	120.5
800	75.24	76.89	77.13	77.07	77.16	77.53	77.89	78.06	78.43	78.86	79.17	79.51	79.84	80.49	81.23	81.28	80.33	78.97	77.61	76.33	75.13	74.04	73.19	121.58
1000	75.89	78.24	78.27	78.33	78.57	78.8	79.03	79.24	79.33	79.46	79.89	80.25	80.36	80.79	81.74	81.8	80.48	78.85	77.43	76.19	75.09	74.14	73.23	122.28
1300	76.94	78.44	78.55	78.73	78.84	78.81	78.86	78.52	78.83	79.39	79.6	80.51	81.11	81.65	82.06	81.71	80.46	78.92	77.54	76.48	75.65	75.1	74.89	122.41
1600	77.02	78.8	78.91	78.85	78.73	78.3	77.94	77.89	78.18	78.75	79.47	80.28	81.24	81.9	82.48	81.96	80.33	78.7	77.2	75.75	74.42	73.52	73.52	122.32
2000	76.27	77.9	78.23	78.02	77.79	77.74	77.51	77.35	77.63	78.36	79.14	80.12	81.23	81.82	82.2	81.78	80.31	78.53	76.87	75.27	73.72	72.53	71.99	121.94
2500	74.94	76.15	76.61	76.77	76.81	76.83	76.86	76.8	76.97	77.81	78.37	79.62	80.58	81.02	81.37	80.74	79.12	77.47	76.13	74.68	73.02	71.75	71.29	121.06
3200	73.92	75.25	75.72	75.86	75.9	75.95	76.08	76.13	76.48	77.08	77.7	78.4	78.99	79.41	79.86	79.26	77.64	76.08	74.8	73.5	71.65	70.55	70.31	119.92
4000	73.25	74.37	74.79	75	75.15	75.46	75.83	75.62	75.9	76.66	77	77.21	77.55	77.39	77.85	77.3	75.96	74.55	73.28	71.55	69.72	68.91	69.07	118.75
5000	72	73.94	74.45	74.52	74.41	74.68	75.11	74.98	75.05	75.67	75.94	76.22	76.13	75.66	75.6	75.33	73.97	72.67	71.4	69.64	67.77	66.95	67.1	117.61
6300	71.4	73.1	73.91	74.25	74.19	74.47	74.91	74.86	75.21	76.02	75.36	75.46	75.25	74.46	74.1	73.59	72.46	71.18	69.89	68.08	66.28	65.64	65.83	117
8000	70.83	72.59	73.65	74.2	74.33	74.56	74.87	74.81	75.21	76.06	75.53	75.35	74.76	73.86	73.14	72.52	71.76	70.82	69.66	67.44	65.11	64.66	65.22	116.79
10000	69.6	70.93	71.96	73.03	73.62	73.5	72.74	72.64	73.27	74.05	73.33	72.45	71.69	71	70.71	70.66	70.2	68.96	67.49	64.67	61.74	61.48	62.64	114.84
OASPL	86.74	88.28	88.67	88.82	88.9	89.01	89.11	89.19	89.48	89.97	90.33	90.89	91.44	91.89	92.35	92.2	91.4	90.58	89.93	89.5	89.33	89.39	89.79	133.06

NASA Lewis Allison AST Jet Noise Test 1996

rdg	107
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	731.14
m01	0.20104
pamb	14.2447
tamb	503.256
rhumid	73.31
winds1	0
nprc	1.39
nprb	1.445
ptc	19.8001
ptb	20.5836
wactc	1.9
wactb	14.685
ttc	1184.68
ttb	506.49
ptmix	20.4938
ttmix	584.184
mixpnd	0.616995
grswxp	12126
badchan	(26)
bkgnd	96
escdate	18.Nov.96
esctime	16:43:04
DADSdate	97.08.19
DADStime	16:43:04
btchdate	18.Nov.96
btchtime	16:43:04

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 17:29:36 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	44.46	47.78	47.99	48.22	48.53	48.79	51.21	48.67	47.19	51.42	51.2	50.9	50.53	50.13	49.72	52.04	51.41	50.94	50.47	50.06	49.43	48.56	47.52	115.12
100	45.29	45.17	47.96	48.25	48.4	47.77	49.42	51.02	50.3	49.57	49.13	51.01	50.99	50.7	50.28	49.91	52.3	52.51	52.68	52.81	52.12	51.15	49.58	116.08
130	47.31	47.8	47.97	49.71	49.8	49.63	51.2	49.18	49.03	50.86	50.4	50.21	50.28	52.39	52.37	52.29	52.1	52.07	53.53	53.15	52.34	50.91	48.92	116.54
160	47.84	49.95	50.52	50.86	52.24	52.11	52.87	51.43	51.33	52.58	52.63	52.66	53.35	52.96	52.78	52.57	53.09	52.53	51.68	50.84	50.63	48.95	46.66	116.87
200	48.71	49.6	51.82	51.97	52.81	52.63	53.53	52.84	52.56	53.23	53.37	54.24	54.33	54.37	54.98	54.41	53.62	53.7	52.75	51.79	50.43	49.28	46.22	117.83
250	49.92	51.84	53.34	54.1	53.95	54.14	54.37	53.75	54.87	54.67	55.95	56.05	57.23	57.48	57.86	57.55	57.32	55.87	54.1	52.58	50.3	47.18	42.99	119.79
320	49.66	50.96	51.61	51.93	52.54	53.34	54.04	54.36	54.37	54.72	54.43	55	55.25	55.25	55.42	54.74	54.21	53.04	51.95	49.73	47.53	44.79	40.41	117.96
400	49.46	52.03	53.19	53.56	54.19	54.99	55.42	55.19	55.85	56.05	56.21	56.46	56.66	56.95	56.53	55.95	54.71	53.67	51.39	49.49	46.72	43.17	38.83	119.05
500	49.09	51.48	52.92	53.9	54.39	54.78	54.9	55.57	55.95	56.28	56.39	56.43	56.33	56.23	56.12	55.6	54.6	52.62	50.36	47.47	44.33	41.2	36.96	118.74
630	49.8	52.06	53.14	53.59	54.34	54.96	55.66	55.17	55.44	55.81	55.98	56.22	56.56	57.05	56.97	55.99	54.21	52.09	49.53	46.53	43.36	39.3	34.46	118.77
800	50.83	53.62	54.24	54.79	55.29	55.96	56.31	55.97	56.35	56.6	56.92	57.01	56.8	57.04	57.24	56.47	54.55	51.78	48.92	45.95	42.5	38.44	32.87	119.34
1000	50.93	53.52	54.31	54.81	55.31	55.59	55.56	56.68	56.71	56.7	56.72	56.97	56.95	56.76	56.92	56.1	53.77	51.19	48.14	44.81	41.24	37.27	31.87	119.19
1300	50.73	53.2	53.81	54.42	54.75	54.6	54.34	55.47	55.7	56.14	56.22	56.68	56.9	56.87	56.72	55.47	52.99	49.93	46.99	43.84	40.05	35.45	29.81	118.63
1600	49.66	52.02	52.8	53.06	53.11	53.24	53.22	54.3	54.49	54.79	55.3	55.9	56.53	56.58	56.28	54.93	52.19	49.08	45.61	41.69	37.29	32.16	25.54	117.74
2000	47.28	49.67	50.84	50.99	51.26	51.51	51.6	53.04	53.34	53.93	54.36	54.97	55.53	55.42	55	53.41	50.52	47.31	43.92	39.95	35.12	29.28	21.84	116.37
2500	44.36	46.41	47.55	48.23	48.67	49	49.32	51.53	51.61	51.99	52.4	53.16	53.34	53.07	52.45	50.89	47.75	44.33	41.04	36.89	31.54	25.36	14.38	114.07
3200	40.65	42.95	44.24	45.12	45.75	46.3	46.63	49.41	49.65	50.13	50.31	50.36	50.22	49.59	48.93	47.07	44	40.59	36.79	32.04	26.26	17.51	0	111.2
4000	35.4	38.23	39.73	40.7	41.37	42.09	42.68	46.69	46.85	47.32	47.39	47.03	46.39	45.06	44.06	42.35	39.21	35.6	31.52	25.97	15.41	0	0	107.47
5000	27.53	31.25	33.26	34.39	35.04	35.97	36.83	42.59	42.55	42.96	42.57	42.15	41.27	39.55	38.07	35.73	32.2	28.26	22.6	4.04	0	0	0	102.32
6300	6.32	18.58	22.7	25.14	26.54	27.75	28.72	37.01	37.36	37.93	36.79	36.11	34.84	32.66	30.51	27.74	23.36	13.91	0	0	0	0	0	96.09
8000	0	0	0	0	0	0	0	28.84	29.19	29.71	28.36	26.84	24.52	20.93	14.34	0	0	0	0	0	0	0	0	86.78
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	61	63.16	64.14	64.69	65.15	65.45	65.9	66.18	66.38	66.78	66.99	67.31	67.55	67.63	67.57	66.84	65.62	64.15	62.74	61.31	59.82	58.01	55.62	130.03
PNL	70.48	72.82	73.82	74.31	74.7	75	75.33	75.45	75.61	76.04	76.27	76.7	76.89	76.71	76.34	75.07	72.85	70.24	67.46	64.67	61.55	57.81	53.02	76.63

NASA Lewis Allison AST Jet Noise Test 1996

rdg 108
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ACOU
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 857.37
m01 0.19989
pamb 14.2517
tamb 504.033
rhumid 71.1
winds1 0
nprc 1.535
nprb 1.611
ptc 21.8764
ptb 22.9585
wactc 2.068
wactb 17.282
ttc 1326.43
ttb 505.692
ptmix 22.8437
ttmix 593.407
mixpnd 0.717873
grsvixp 16590.1
badchan (26)
bkgnd 96
escdate 18.Nov.96
esctime 16:32:37
DADSdate 97.08.19
DADStime 16:32:37
btchdate 18.Nov.96
btchtime 16:32:37
''Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 17:31:30 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.59	72.54	73.23	73.74	74.09	74.35	74.53	74.88	74.79	74.91	75.04	75.2	75.46	75.86	76.45	77.25	78.3	79.59	81.12	82.79	84.53	86.43	88.89	120.81
100	73.62	73.63	73.81	74.1	74.45	74.84	75.25	75.65	76.03	76.38	76.88	76.95	77.26	77.69	78.3	79.11	80.17	81.49	83.06	84.7	86.27	87.81	89.55	122.29
130	74.24	74.42	74.37	74.21	74.02	73.88	73.86	73.97	74.25	74.72	75.38	76.23	77.18	78.14	79.03	79.92	80.89	82.03	83.33	84.64	85.85	87	88.31	122.03
160	74.92	75.12	75.39	75.71	76.07	76.43	76.79	77.14	77.46	77.74	77.98	78.21	78.53	79.03	79.76	80.69	81.75	82.88	84.03	85.06	85.89	86.59	87.38	122.9
200	75.94	76.76	77.21	77.44	77.57	77.67	77.74	77.75	77.77	77.93	78.35	79.1	80.05	80.45	81.17	82.02	82.65	83.23	83.87	84.44	84.9	85	85.13	123.23
250	76.57	77.1	77.55	77.94	78.29	78.61	78.9	79.19	79.47	79.77	80.09	80.46	81	81.78	82.84	83.57	83.8	84.06	84.55	84.83	84.64	84.15	83.53	124.12
320	77.38	78.33	78.61	78.61	78.88	78.94	79.12	79.32	79.63	80.04	80.54	81.09	81.67	82.25	82.82	83.35	83.79	84.03	84.01	84.08	84.08	83.72	82.65	124.21
400	77.45	78.2	78.63	78.94	79.27	79.7	80.17	80.62	81.03	81.42	81.83	82.22	82.52	82.95	83.36	83.62	83.74	83.74	83.63	83.32	82.72	81.86	80.82	124.57
500	78	79.38	79.79	79.89	80.08	80.38	80.41	80.88	81.25	81.45	81.68	82.2	83.03	83.53	83.81	83.79	83.71	83.56	83.01	82.19	81.27	80.38	79.65	124.71
630	77.78	79.92	80.27	80.36	80.55	80.97	81.67	81.98	81.65	81.79	82.46	83.03	83.63	84.27	84.2	83.83	83.49	83.1	82.7	81.93	80.69	79.41	78.44	125.09
800	79.69	81.67	81.74	81.49	81.41	81.46	81.79	82.07	82.31	82.76	83.6	84.33	84.75	85.13	85.19	84.87	84.04	83.64	82.97	81.98	80.78	79.53	78.52	125.91
1000	81.66	83.27	82.92	82.81	82.58	82.46	82.51	82.72	83.07	83.63	84.33	84.98	85.5	85.93	85.87	84.91	83.85	83.41	82.87	81.69	80.07	78.65	77.79	126.58
1300	83.21	84.47	83.76	83.32	82.96	82.51	82.3	82.73	83.55	84.02	84.8	85.95	87.02	87.68	87.71	86.21	84.25	83.2	82.52	81.52	80.05	78.87	77.89	127.4
1600	83.61	83.98	83.81	83	82.63	82.57	82.79	83.03	83.25	83.76	84.78	86.17	87.2	87.82	87.57	86.18	84.24	83.03	82.28	81.22	79.69	78.34	77.77	127.36
2000	83	83.42	83.35	83.23	83.13	82.95	82.81	83.04	83.45	84.06	85.13	86.46	87.64	88.26	88.22	86.83	84.89	83.49	82.24	80.78	79.2	77.94	77.42	127.67
2500	81.32	82.08	82.56	82.77	82.81	82.65	82.54	82.62	82.87	83.51	84.8	86.33	87.25	87.71	87.28	85.8	83.9	82.34	81.14	79.92	78.64	77.72	77.5	127.05
3200	79.86	80.46	81.19	81.78	82.19	82.08	81.94	82.24	82.71	83.17	84.09	85.36	86.3	86.65	86.41	85.16	83.4	81.94	80.61	79.22	77.85	76.88	76.62	126.27
4000	78.53	79.36	79.87	80.38	80.84	81.1	81.15	81.4	81.71	82.22	83.38	84.58	85.03	84.73	84.28	83.38	82.1	80.77	79.51	78.05	76.53	75.51	75.26	125
5000	77.45	78.81	79.15	79.09	79.08	79.49	80	80.59	80.77	80.92	82.21	83.23	83.38	82.86	82.69	81.59	79.87	78.88	77.85	76.44	74.98	74.06	73.9	123.57
6300	76.81	77.93	78.29	78.13	78.15	78.68	79.19	79.84	80.14	80.07	80.97	81.86	81.96	81.2	80.52	79.34	77.89	76.86	75.8	74.48	73.17	72.41	72.28	122.28
8000	75.68	76.94	77.46	77.33	77.52	78.3	79.03	79.72	79.99	79.43	80.81	81.52	80.9	79.75	78.92	77.9	76.65	75.66	74.63	73.29	71.85	70.9	70.65	121.57
10000	73.9	74.68	74.71	74.93	75.8	76.9	76.44	77.31	77.94	76.34	78.62	78.43	77.63	76.71	76.16	75.52	74.47	73.2	71.78	70.17	68.61	67.57	67.39	119.04
OASPL	92.45	93.43	93.5	93.47	93.51	93.6	93.74	94.07	94.38	94.73	95.59	96.55	97.24	97.58	97.57	96.84	96.02	95.66	95.54	95.46	95.46	95.72	96.46	138.24

NASA Lewis Allison AST Jet Noise Test 1996

rdg 106
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ACOU
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 857.37
m01 0.19989
pamb 14.2517
tamb 504.033
rhumid 71.1
winds1 0
nprc 1.535
nprb 1.611
ptc 21.8764
ptb 22.9595
wactc 2.068
wactb 17.282
ttc 1326.43
ttb 505.692
ptmix 22.8437
ttmix 593.407
mixpnd 0.717873
grevixp 16590.1
badchan (26)
bkgnd 96
escdate 18.Nov.96
esctime 16:32:37
DADSdate 97.08.18
DADStime 16:32:37
btchdate 18.Nov.96
btchtime 16:32:37
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 17:31:38 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	50.19	53.36	53.23	53	53	53.12	55.62	54.63	52.92	55.81	55.32
100	50.76	50.46	52.86	53.02	53.16	52.53	54.02	55.58	55.04	54.5	54.18
130	52.99	53.32	53.39	55.06	55.12	54.96	56.71	53.86	53.86	55.54	55.42
160	53.14	55.17	55.62	55.82	57.25	57.1	57.62	56.96	56.79	58.05	58.22
200	54	54.55	55.96	56.17	57.16	57.34	56.62	57.47	56.95	57.32	57.3
250	55.1	56.25	57.34	58.15	58.3	58.64	58.9	58.76	60.01	59.94	60.73
320	54.72	55.53	56.14	56.78	57.67	58.46	58.88	58.71	58.66	59	58.59
400	54.29	56.45	57.46	57.94	58.42	58.98	59.1	59.71	60.17	60.46	60.67
500	53.87	55.88	57.1	58.06	58.53	59.08	59.81	59.6	59.98	60.11	60.12
630	54.29	57.07	57.93	58.11	58.67	58.96	59.8	60.32	59.9	60.02	60.96
800	56.02	58.28	58.72	59.15	59.37	59.67	59.91	59.97	60.3	60.47	61.04
1000	56.56	59.04	59.06	59.3	59.35	59.13	59.15	60.16	60.39	60.82	61.21
1300	57.63	59.16	59	58.66	58.5	58.65	59	59.68	60.42	60.8	61.46
1600	56.15	57.46	57.63	58.03	58.2	58.44	58.58	59.42	59.63	60.01	60.89
2000	53.83	55.13	56.04	56.62	57.22	57.25	57.21	58.74	59.11	59.53	60.35
2500	50.41	51.93	53.28	54.29	55.07	55.18	55.22	57.36	57.47	57.94	58.69
3200	46.46	48.05	49.49	50.67	51.57	52.03	52.18	55.52	55.89	56.1	56.69
4000	40.72	43.09	44.81	45.51	46.21	47.01	47.59	52.46	52.67	52.95	53.73
5000	33.03	36.21	37.76	38.59	38.29	40.43	41.27	48.23	48.22	48.1	48.85
6300	20.45	25.18	27.73	29.04	30.28	31.7	32.92	42.03	42.3	41.95	42.3
8000	0	0	0	0	0	11.75	13.77	33.82	33.97	33.12	33.78
10000	0	0	0	0	0	0	0	16.51	16.91	11.15	14.01
OASPL	66.57	68.26	66.87	69.3	69.7	69.93	70.43	70.83	71.04	71.42	71.87
PNL	76.58	78.18	78.91	79.54	79.99	80.19	80.46	80.64	81.01	81.39	82.07

distance: (	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	54.97	54.76	54.7	54.78	57.29	57.02	56.96	57.05	57.2	57.12	56.73	56.07	121.12
100	56.36	56.42	56.25	55.94	55.7	58.24	58.62	58.76	58.77	58.39	57.57	56.27	121.89
130	55.46	55.85	57.64	57.67	57.66	57.65	57.9	59.37	59.26	58.7	57.53	55.79	122.33
160	58.29	58.57	57.9	57.78	57.91	59.24	59.07	58.52	57.75	56.46	55.38	52.87	122.6
200	58.55	58.95	58.83	59.63	59.62	59.21	59.64	58.94	57.94	56.42	54.62	51.58	122.91
250	60.5	61.18	61.26	61.95	61.53	61.01	59.64	58.9	58.17	56.22	53.18	48.84	124.24
320	59.21	59.43	59.52	59.87	59.66	59.6	58.63	57.66	55.79	53.62	51.06	47.13	122.82
400	60.71	60.73	60.92	60.7	60.46	59.47	58.54	56.51	54.81	51.96	48.45	44.43	123.43
500	60.55	61.34	61.32	60.92	59.81	58.59	57.04	55.54	53.23	50.14	46.38	41.62	123.17
630	61.29	61.16	61.3	60.61	59.58	58.39	57.02	55.15	52.45	49.2	45.06	39.89	123.25
800	61.52	61.55	61.6	61.08	59.51	57.76	56.34	54.31	51.46	47.57	43.08	37.45	123.48
1000	61.8	62.34	62.46	61.95	59.97	57.32	55.19	52.97	49.96	46.04	41.3	35.43	123.68
1300	62.2	62.67	62.95	62.23	59.88	56.76	54.27	51.99	48.87	44.79	39.74	33.52	123.7
1600	62.07	62.62	62.52	61.69	59.54	56.4	53.73	50.99	47.42	42.8	37.36	30.64	123.18
2000	61.4	62.05	61.83	60.82	58.41	55.24	52.16	48.98	45.26	40.61	35.09	27.91	122.24
2500	59.93	60.26	60.1	58.7	58.13	53.01	49.84	46.44	42.43	37.49	31.49	23.47	120.34
3200	57.47	57.65	56.96	55.73	53.35	50.13	46.66	43.06	38.46	32.83	25.84	7.38	117.68
4000	54.3	53.95	52.51	50.81	48.4	45.19	41.71	37.74	32.62	26.02	13.78	0	113.78
5000	49.18	48.41	46.61	44.84	41.79	37.98	34.21	29.69	22.99	0.64	0	0	108.4
6300	42.41	41.46	39.2	36.7	33.38	29.09	23.9	14.16	0	0	0	0	101.49
8000	33.43	31.24	28.08	24.38	16.67	0	0	0	0	0	0	0	92.08
10000	9.82	0	0	0	0	0	0	0	0	0	0	0	72.75
OASPL	72.45	72.82	72.81	72.41	71.31	70.26	69.32	68.46	67.39	66.01	64.44	62.4	135.04
PNL	82.64	83.1	82.65	81.94	80.07	77.74	75.49	73.13	70.79	67.69	64.34	59.79	82.25

NASA Lewis Allison AST Jet Noise Test 1996

rdg	105
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	899.69
m01	0.19863
pamb	14.2542
tamb	503 665
rhumid	73 18
winds1	0
nprc	1.738
nprb	1.82
ptc	24.7738
ptb	25.9426
wactc	2.381
wactb	19.393
ttc	1409.94
ttb	505.899
ptmix	25.8148
ttmix	604.756
mixpnd	0.746206
grsvixp	19589.9
badchan	(26)
bkgnd	96
escdate	18.Nov.96
esctime	16:28:57
DADSdate	97.08.19
DADStime	16:28:57
btchdate	18.Nov.96
btchtime	16:28:57

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 16:56:46 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	74.62	75.62	76.48	77.22	77.87	78.44	78.93	79.36	79.75	80.08	80.38	80.67
100	76.98	78.02	78.79	79.35	79.76	80.06	80.28	80.44	80.56	80.66	80.77	80.9
130	77.7	78	78.17	78.28	78.37	78.48	78.63	78.86	79.16	79.55	80.03	80.62
160	78.74	79.3	79.72	80.05	80.34	80.6	80.88	81.18	81.54	81.96	82.46	83.02
200	80	80.28	80.59	80.94	81.31	81.69	82.09	82.49	82.9	83.3	83.71	84.12
250	80.62	80.76	80.86	81	81.15	81.36	81.65	82.01	82.47	83.02	83.68	84.44
320	81.39	81.82	82.05	82.16	82.24	82.32	82.45	82.67	83	83.47	84.09	84.76
400	81.74	82.61	82.95	82.86	82.93	83.54	84.15	84.47	84.7	85.08	85.59	85.98
500	83	83.97	84.07	83.83	83.69	83.87	84.17	84.37	84.41	84.6	85.43	86.67
630	83.26	84.17	84.35	84.28	84.18	84.27	84.53	84.72	84.95	85.37	85.97	86.75
800	84.19	85.23	85.21	85.13	85.2	85.38	85.67	85.99	86.17	86.34	86.95	87.85
1000	85.86	86.49	86.35	86.16	86.11	86.24	86.53	86.93	87.38	87.86	88.58	89.66
1300	86.82	87.66	87.4	87.06	86.86	86.96	87.08	87.24	87.63	88.17	88.98	90.03
1600	87.54	88.21	88.29	88.12	87.9	87.81	87.93	88.2	88.58	89.2	90.22	91.53
2000	88.22	88.8	88.79	88.53	88.28	88.21	88.38	88.73	89.14	89.86	91.13	92.61
2500	88.37	88.84	88.84	88.78	88.74	88.69	88.68	88.56	88.87	89.78	91.25	92.99
3200	88.95	88.89	88.95	89.13	89.23	89.08	89.07	89.06	89.25	89.96	91.28	93
4000	88.53	88.98	89.15	89.01	88.99	89.02	89.08	89	89.18	89.93	91.28	92.98
5000	87.96	88.75	89.01	88.7	88.28	88.37	88.65	88.67	88.72	89.49	90.84	92.08
6300	86.94	87.79	88.09	88	87.69	88.03	88.41	88.52	88.68	89.16	89.84	91.22
8000	85.79	86.74	87.18	87.41	87.4	87.55	87.99	88.05	88.31	88.94	89.73	90.98
10000	83.87	84.06	84.47	86.22	85.8	85.86	85.59	85.65	85.83	86.26	87.07	87.95
OASPL	98.89	99.3	99.42	99.38	99.33	99.39	99.58	99.72	99.98	100.57	101.55	102.88

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81	81.45	82.07	82.89	83.93	85.22	86.76	88.42	90.18	92.07	94.54	126.17
100	81.16	81.62	82.35	83.39	84.77	86.5	88.57	90.75	92.85	94.89	97.12	128.01
130	81.35	82.24	83.29	84.53	85.95	87.55	89.3	91.03	92.62	94.07	95.63	127.8
160	83.68	84.42	85.25	86.18	87.14	88.21	89.34	90.38	91.22	91.88	92.57	127.95
200	84.58	85.07	85.66	86.34	87.14	88.06	89.06	89.97	90.55	90.76	90.64	128.09
250	85.25	86.08	86.9	87.68	88.39	89.05	89.65	90.16	90.48	90.51	90.24	128.5
320	85.19	85.65	86.29	87.13	88.05	88.81	89.19	89.15	88.74	88	86.91	128.18
400	86.4	87.54	87.8	87.58	87.67	87.86	87.9	87.88	87.14	86.31	85.17	128.62
500	87.02	87.78	88.51	88.7	88.5	88.2	87.95	87.47	86.53	85.34	84.15	128.99
630	87.74	88.64	89.24	88.86	88.03	87.69	87.32	86.48	85.25	84.07	83.07	129.18
800	88.81	89.47	89.56	89.06	88.35	87.75	87.1	86.25	85.26	84.38	83.86	129.89
1000	90.69	90.86	90.69	89.39	87.65	87.18	86.53	85.71	84.76	83.75	82.77	130.87
1300	91.02	91.7	91.77	90.23	88.28	87.33	86.62	85.7	84.59	83.48	82.49	131.45
1600	92.77	93.32	92.81	90.88	88.44	87.53	87.14	86.3	85.08	84.28	84.69	132.52
2000	93.59	93.86	93.33	91.2	88.87	87.62	86.78	85.87	84.94	84.37	84.65	133.1
2500	94.2	94.53	93.62	91.48	89.2	87.63	86.55	85.34	83.96	82.95	82.81	133.37
3200	94.14	94.22	93.21	91.36	89.3	87.41	85.85	84.48	83.28	82.52	82.51	133.38
4000	93.6	93.11	92	90.49	88.81	87.11	85.7	84.29	82.95	82.13	82.17	133.01
5000	92.95	92.21	91.09	89.39	87.31	85.61	84.22	82.83	81.54	80.76	80.8	132.31
6300	92.28	91.56	90.13	88.21	86.12	84.36	83.01	81.78	80.59	79.79	79.69	131.64
8000	91.59	90.55	89.08	87.43	85.58	83.81	82.32	80.98	79.73	78.83	78.63	131.06
10000	88.6	87.82	86.67	85.25	83.32	81.29	79.75	78.3	76.83	75.86	75.79	128.54
OASPL	103.77	103.85	103.33	102.11	101.02	100.62	100.64	100.82	101.15	101.73	102.79	144.07

NASA Lewis Allison AST Jet Noise Test 1996

rdg	105
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	899.69
m01	0.19863
pamb	14.2542
tamb	503.665
rhumid	73.18
winds1	0
nprc	1.738
nprb	1.82
ptc	24.7738
ptb	25.9426
wactc	2.381
wactb	19.393
ttc	1409.94
ttb	505.899
ptmix	25.8148
ttmix	604.756
mixpnd	0.748208
grsvixp	19589.9
badchan	(26)
bkgnd	96
escdate	18.Nov.96
esctime	16:28:57
DADSdate	97.08.19
DADStime	16:28:57
blchdate	18.Nov.96
blchtime	16:28:57

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 16:56:54 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	53.18	56.92	57.25	57.38	57.49	57.58	60.57	59.32	57.88	60.18	59.77
100	54.85	54.86	57.2	57.5	57.73	57.2	58.78	60.36	59.72	59.07	58.59
130	56.92	57.32	57.51	59.35	59.46	59.34	60.61	58.74	58.81	60.47	60.28
160	57.03	58.83	59.23	59.53	61.02	61.1	62	61	60.85	62.29	62.37
200	58.18	58.4	59.49	59.51	60.41	60.43	61.43	62.22	62.04	62.6	62.58
250	59.03	59.79	60.85	61.59	61.63	62.01	62.17	61.58	62.74	62.89	63.95
320	58.75	59.43	60.3	60.91	61.51	62.43	62.83	62.06	62.21	62.74	62.55
400	58.83	60.63	61.73	61.98	62.16	62.4	62.87	63.55	63.84	64.12	64.57
500	59.02	60.28	61.04	61.7	62.02	62.31	62.94	63.11	63.1	63.23	63.88
630	59.32	61.11	61.75	61.8	62.37	63.06	63.42	63.06	63.33	63.85	64.41
800	60.21	61.56	61.98	62.46	62.83	63.26	63.86	63.86	64.2	64.18	64.59
1000	60.72	62.46	62.82	63	63.16	63.44	63.87	64.37	64.76	65.03	65.43
1300	60.75	62.25	62.92	63.4	63.64	63.94	64.23	64.18	64.58	65.18	65.93
1600	60.75	62.33	62.91	63.14	63.35	63.65	64.01	64.59	64.99	65.51	66.45
2000	59.97	61.34	62.04	62.48	62.87	63.15	63.29	64.41	64.83	65.45	66.5
2500	58.58	59.6	60.41	61.13	61.63	61.94	62.28	63.28	63.61	64.39	65.54
3200	55.61	57.03	58.12	58.99	59.49	59.78	60.03	62.33	62.42	62.9	63.9
4000	51.05	53.01	54.34	54.86	55.14	55.71	56.16	60.04	60.15	60.67	61.7
5000	43.35	46.08	47.72	48.47	49.11	49.77	50.45	56.29	56.21	58.77	57.39
6300	32.28	35.47	37.73	39.2	40.02	41	41.94	50.7	50.85	51.08	51.25
8000	0.19	16.88	21.22	23.67	25.57	26.9	27.63	42.18	42.33	42.55	42.74
10000	0	0	0	0	0	0	0	27.78	27.63	27.33	26.87
OASPL	71.13	72.5	73.22	73.86	74.06	74.37	74.93	75.29	75.52	76.03	76.63
PNL	82.3	83.73	84.53	85.02	85.44	85.76	86.16	86.43	86.86	87.27	88.11

distance: (	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.55	59.53	59.7	60.03	62.34	62.33	62.6	63.04	63.6	63.94	63.95	63.66	127.01
100	60.56	60.53	60.31	60.01	59.85	62.64	63.24	63.93	64.45	64.58	64.22	63.37	127.27
130	60.16	60.4	62.46	62.64	62.74	62.78	63.03	63.26	64.62	64.09	63	61.31	127.28
160	62.47	63.55	63.28	63.24	63.24	64.12	63.93	63.75	63.14	62.16	61.47	58.72	127.51
200	63.08	62.81	62.83	63.87	63.85	63.64	64.46	63.98	63.13	61.75	60.43	57.64	127.49
250	64.17	65.01	64.98	65.24	65.12	65.52	65.05	64.19	63.26	61.24	58.15	54.17	128.23
320	63.23	63.57	63.69	64.03	63.74	63.73	63.05	62.37	60.61	58.46	55.83	51.67	126.96
400	64.74	64.62	65.52	65.47	65.02	63.78	62.79	61.13	59.49	56.8	53.12	48.96	127.63
500	64.82	64.68	65.08	65.25	64.31	63.06	61.62	60.31	58.03	54.87	51.04	46.23	127.09
630	65.08	65.58	66.03	65.73	64.85	63.02	61.22	58.85	56.27	53.29	49.62	45.04	127.38
800	65.21	66.14	66.29	65.65	63.94	61.87	60.16	58.37	55.79	52.3	48.09	42.38	127.48
1000	66.27	66.99	66.78	66.27	64.19	61.36	59.39	57.11	54.22	50.63	46.01	39.88	127.92
1300	66.54	67.32	67.45	66.53	63.87	60.81	58.5	56.32	53.37	49.53	45.02	39.39	128.08
1600	67.55	68.23	68.27	67.04	63.82	60.3	58	55.72	52.66	48.69	44.07	38.34	128.43
2000	67.71	68.28	67.91	66.44	63.41	59.96	56.99	54.16	50.6	45.98	40.48	33.47	128.11
2500	66.86	67.47	67.1	65.26	62.14	58.59	55.13	51.6	47.66	42.84	36.92	29.03	127.02
3200	65.2	65.7	64.86	62.85	59.87	56.51	52.82	48.93	44.43	38.99	32.29	22.87	125.11
4000	62.91	62.93	61.21	58.84	55.93	52.29	48.27	43.91	38.71	32.42	24.12	0	122.07
5000	58.06	58.09	56.33	53.77	50.16	45.69	41.45	36.5	30.58	22.14	0	0	117.27
6300	51.84	51.77	49.65	46.53	42.43	37.69	32.47	26.28	15.89	0	0	0	110.84
8000	42.89	42.01	39.23	35.32	30.68	24.58	13.99	0	0	0	0	0	101.51
10000	26	24.45	19.86	9.62	0	0	0	0	0	0	0	0	85.39
OASPL	77.44	77.94	77.9	77.25	75.88	74.8	74.08	73.32	72.69	71.65	70.52	68.91	139.87
PNL	89.13	89.61	89.25	87.9	85.52	82.94	80.55	78.3	76.22	73.51	70.39	66.4	88.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	109
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	463.52
m01	0.30275
pamb	14.1945
tamb	502.544
rhumid	76.9
winds1	0
nprc	1.17
nprb	1.214
ptc	16.6076
ptb	17.2321
wactc	1.09
wactb	10.011
ttc	1116.15
ttb	506.42
ptmix	17.1706
ttmix	566.289
mixpnd	0.397288
grsvixp	5145.54
badchan	(26)
bkgnd	97
escdate	18.Nov.96
esctime	17:00:22
DADSdate	97.06.19
DADStime	17:00:22
btchdate	18.Nov.96
btchtime	17:00:22

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Fri Aug 22 13:31:39 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	0	59.56	59.91	59.69	59.23	58.76	58.48	58.5	58.93	59.83	61.22	62.95	63.76	63.31	62.46	61.61	61.31	62.01	0	0	0	102.92
250	62.19	66.72	66.55	66.12	67.52	66.28	67.17	67.49	67.99	68.48	69.04	69.71	69.65	70.28	70.56	70.3	69.87	70.1	70.74	70.97	70.52	69.67	62.68	111.85
320	64.74	67.23	68.07	67.67	67.29	67.49	68.34	69.01	69.3	69.45	69.62	69.91	70.3	71.03	71.23	70.91	70.96	71.26	71.33	70.83	69.24	68	63.5	112.4
400	60.96	65.42	66.58	66.48	66.65	67.31	67.47	68.14	68.96	69.52	69.42	69.62	70.25	70.1	69.62	69.74	69.71	68.99	68.31	67.56	61.97	61.06	60.76	111.26
500	64.96	68.56	68.74	68.25	68.64	69.17	69.54	69.73	69.91	70.02	69.82	69.9	70.93	71.83	71.76	71.21	70.84	70.71	70.21	68.79	67.42	66.77	65.41	112.75
630	63.51	66.81	67.41	67.3	67.36	67.65	68.38	68.72	69.1	69.32	69.47	69.71	69.89	70.52	71.13	71.18	70.65	69.77	68.76	67.72	66.68	65.99	66.54	111.9
800	64.29	67.53	67.52	67.01	67.07	67.69	68.44	69.21	69.7	69.66	70.19	70.23	69.98	70.23	70.57	70.44	69.69	68.81	67.93	67.01	66.07	65.3	65.33	111.85
1000	63.52	66.16	66.34	66.46	66.46	66.73	67.11	67.67	68.33	68.76	68.9	68.79	68.68	69.05	69.1	68.91	68.48	68.25	67.92	66.87	65.64	64.75	64.68	110.72
1300	63.34	65.55	65.79	65.76	65.99	66.41	66.73	67.13	67.25	67.39	67.57	67.72	68.1	68.36	68.25	68.04	67.85	67.53	66.79	65.62	64.69	64.46	65.31	109.91
1600	69.15	69.92	70.33	70.51	70.23	70.27	70.67	70	70.22	69.95	69.83	69.85	69.7	69.77	70.06	70.55	70.93	70.77	70.32	70.28	70.69	71.86	74.8	113.21
2000	76.03	71.64	71.48	69.78	69.34	69.32	69.77	70.02	69.58	68.86	68.53	68.62	69.02	69.53	69.74	69.57	69.36	69.3	69.41	69.89	71.15	73.45	75.54	113.38
2500	61.06	62.95	63.27	63.51	63.87	63.96	64.24	64.36	64.55	64.71	64.86	64.96	64.96	65.12	65.03	64.73	64.49	64.03	63.31	62.6	61.91	61.37	61.89	107.05
3200	63.47	64.26	64.43	64.46	64.65	64.97	65.41	65.63	65.55	65.3	64.94	64.73	64.72	64.73	64.59	64.26	63.8	63.3	62.67	61.86	61.43	61.33	62.48	107.45
4000	63.81	64.53	64.89	65.46	65.73	66.59	67.59	68.06	67.94	67.06	66.82	66.95	66.89	66.67	66.46	66.19	65.71	65.15	64.58	64.06	63.67	63.57	64.64	109.24
5000	63.09	63.86	64.24	64.48	64.54	65.11	65.89	66.19	66.36	66.34	66.2	65.6	65.05	64.25	63.76	63.56	62.96	62.17	61.31	60.46	59.87	59.77	60.75	107.58
6300	62.4	63.71	64.81	65.29	65.66	66.37	67.2	67.73	67.79	67.62	67.51	67.11	66.7	65.62	64.87	64.52	63.64	62.59	61.56	60.63	59.91	59.65	60.52	106.7
8000	62.16	64.11	65.48	66.33	66.77	67.44	68.48	68.91	69.12	69.19	69.18	68.79	68.16	66.72	65.96	65.83	64.87	63.69	62.58	61.62	60.82	60.4	60.7	109.96
10000	70.73	64.26	65.14	66.18	66.99	67.42	67.44	68.04	68.37	68.21	68.35	67.49	66.82	65.4	64.96	65.49	64.89	63.37	61.71	60.47	59.65	59.22	59.55	109.49
OASPL	80.54	79.07	78.54	79.39	79.41	79.71	80.25	80.56	80.81	80.83	80.85	80.88	81.01	81.18	81.25	81.1	80.79	80.43	80.05	79.55	78.82	79.06	79.93	123.28

NASA Lewis Allison AST Jet Noise Test 1996

rdg 109
run 1
test_prog Allison96
test_num 3
test_facil LaRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ACOU
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 463.52
m01 0.30275
pamb 14.1945
tamb 502.544
rhumid 76.9
winds1 0
nprc 1.17
nprb 1.214
ptc 16.6076
ptb 17.2321
wactc 1.09
wactb 10.011
ttc 1116.15
ttb 506.42
ptmix 17.1708
ttmix 566.289
mixpnd 0.397288
grsvixp 5145.54
badchan (26)
bkgnd 97
escdate 18.Nov.96
esctime 17:00:22
DADSdate 97.08.19
DADStime 17:00:22
btchdate 18.Nov.96
btchtime 17:00:22
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 13:31:47 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
160	0	0	0	42	44.89	45.17	46.82	38.44	38.14	38.09	38.35	43.41	44	46.7	46.08	46.55	45.25	45.9	36.11	35.56	0	0	0	107.4
200	42.17	46.33	48.43	48.4	47.56	47.33	47.93	47.05	48.6	49.64	50.43	50.98	50.69	50.62	50.35	49.16	48.21	47.09	45.38	44.35	43.42	40.58	33	112.85
250	40.94	43.86	44.44	43.44	42.98	45.1	45.99	48.4	48.15	47.36	46.74	48.5	46.53	46.7	45.87	45.72	45.57	43.86	45.98	43.9	39.91	36.19	28.87	110.07
320	39.28	44.89	46.37	48.7	47.41	48.1	48.41	47.2	48.52	49.16	48.83	48.74	49.32	48.57	48.91	47.57	46.34	45.49	42.32	40.18	34.47	31.35	26.45	111.41
400	40.66	44.32	44.96	45.03	45.49	45.92	46.85	48.49	48.54	48.88	48.13	47.87	48.16	48.28	48.29	47.43	45.95	43.94	43.63	40.84	37.57	34.47	30.58	110.76
500	39.53	43.84	44.57	44.78	45.06	45.97	46.89	47.05	47.63	47.86	48.37	48.65	47.83	47.55	46.98	46.04	44.24	42.29	41.72	39.06	36.02	32.67	29.54	110.03
630	39.04	42.65	42.99	42.91	43.29	43.8	44.37	47.16	47.16	46.9	46.36	45.93	45.81	45.69	45.29	44.18	42.7	41.09	40.11	37.52	34.42	30.82	26.48	108.46
800	37.81	40.89	41.63	42.13	42.56	43.2	43.74	45.11	45.68	45.73	45.48	44.95	44.7	44.15	43.36	42.47	41.12	39.53	39.37	36.48	32.91	28.9	24.34	107.17
1000	37.44	40.49	41.91	43.37	44.46	45.9	46.86	44.09	44.37	44.54	44.46	44.41	44.49	44.58	44.36	43.87	43.3	41.95	37.24	34.24	30.83	27.31	23.27	107.6
1300	42.55	44.66	46.16	46.33	45.07	45.54	45.7	46.4	46.8	46.15	45.74	45.51	45.2	44.77	44.15	43.13	41.67	40.08	39.9	37.87	35.7	33.04	30.51	108.73
1600	49.83	42.82	41.06	38.51	38.61	38.82	39.13	45.78	45.02	43.91	42.79	41.4	40.29	39.89	38.88	37.33	35.63	33.55	38.34	36.47	34.76	33.06	29.03	105.77
2000	31	33.37	34.65	35.62	36.49	37.29	38.18	38.11	39.18	39.13	38.95	38.49	37.92	37.19	36.19	34.74	33.04	30.86	30.92	27.68	23.74	17.03	0	100.38
2500	30.86	32.76	34.07	35.44	36.25	37.41	38.62	38.81	38.99	38.67	38.36	38.37	38.21	37.62	36.63	35.17	33.23	30.84	28.25	24.96	20.81	0	0	100.24
3200	26.18	28.2	29.16	29.82	30.7	31.87	33.29	39.21	36.98	37.9	37.03	36.03	34.58	32.69	31.04	29.43	27.08	24.1	27.92	24.18	18.51	0	0	97.53
4000	1.22	20.81	23.35	24.99	26.27	27.59	28.84	33.71	33.96	33.79	33.36	32.31	31.25	29.41	27.53	25.66	21.83	11.01	17.27	0	0	0	0	92.96
5000	0	0	0	-2.39	7.72	18.59	20.23	29.69	29.99	29.76	29.47	26.62	27.27	24.58	20.97	14.98	0	0	0	0	0	0	0	88.15
6300	0	0	0	0	0	0	0	21.31	21.48	21.3	20.61	17.65	11.15	0	0	0	0	0	0	0	0	0	0	78.48
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	52.89	53.89	54.93	55.21	55.49	56.05	56.76	57.16	57.53	57.63	57.49	57.56	57.45	57.55	57.08	56.23	55.06	53.88	52.47	50.43	47.59	44.5	39.09	120.12
PNL	65.74	63.26	64.29	64.78	64.86	65.21	65.76	66.22	66.09	65.86	65.32	65.09	64.72	64.34	63.6	62.46	60.69	59.12	57.15	54.46	51.26	47.29	41.43	64.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg	111
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	735.64
m01	0.30171
pamb	14.196
tamb	502.462
rhumid	74.75
winds1	0
nprc	1.391
nprb	1.444
ptc	19.7466
ptb	20.499
wactc	2.068
wactb	14.499
ttc	1178.25
ttb	506.904
ptmix	20.4051
ttmix	589.83
mixpnd	0.617962
grsvixp	12190.7
badchan	[24,25,26]
bkgnd	97
escdate	18.Nov.96
esctime	17:11:23
DADSdate	97.08.22
DADStime	17:11:23
btchdate	18.Nov.96
btchtime	17:11:23

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Fri Aug 22 13:35:51 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	53.8	53.82	53.81	66.32	66.53	67.84	70.12	71.65	72.48	72.8	72.74	72.44
100	0	0	64.01	67.38	67.39	67.32	67.32	67.25	67.17	67.18	67.34	67.62
130	64.48	65.32	65.71	65.92	67.91	66.92	65.77	66.41	68.09	69.04	69.22	69
160	65.45	67.35	68.99	67.2	66.64	66.96	68.1	68.58	69.21	69.63	69.29	70.01
200	67.08	67.89	68.17	68.79	68.59	69.45	70.55	71.42	72.16	72.66	72.85	72.77
250	69.15	70.83	71.67	71.79	71.57	71.49	71.67	72.1	72.65	73.21	73.65	73.88
320	71.25	72.69	73.04	72.96	72.86	72.82	72.86	72.96	73.13	73.4	73.91	74.76
400	70.64	72.25	72.93	73.16	73.21	73.38	73.43	74.08	74.81	74.78	75.5	75.68
500	71.93	74.23	74.67	74.64	74.86	75.08	75.18	75.39	75.71	75.67	75.38	75.62
630	72.16	74.05	74.64	74.69	74.91	75.2	75.45	75.7	75.83	75.8	75.89	76.2
800	74.13	75.94	76.3	76.14	76.27	77.12	76.99	76.98	77.05	77.19	77.42	77.72
1000	75.86	77.63	77.86	77.66	78.1	78.27	78.24	78.08	78	78.03	78.17	78.5
1300	77.15	78.48	78.5	78.3	78.27	78.35	78.48	78.42	78.18	78.1	78.34	78.86
1600	77.44	78.93	79.14	78.88	78.56	78.41	78.11	77.93	77.46	77.2	77.58	78.88
2000	76.48	77.78	78.2	78.09	77.69	77.32	77.15	77.26	77.4	77.37	77.56	78.72
2500	75.3	76.4	76.74	76.84	76.53	76.61	76.8	76.82	76.6	76.57	77.11	78.24
3200	74.06	75.14	75.97	75.68	75.71	76.12	76.48	76.46	76.16	75.97	76.14	76.75
4000	73.45	74.66	75.73	75.38	75.21	75.8	75.83	75.69	75.48	75.29	75.44	75.92
5000	72.17	74.06	75.13	74.92	74.35	74.8	75.28	75.2	74.82	74.39	74.48	74.64
6300	71.72	73	74.94	74.79	74.15	74.82	75.28	75.3	74.87	74.39	73.97	74.02
8000	71.19	72.77	74.47	74.77	74.41	74.96	75.73	75.51	75.18	74.74	74.48	74.36
10000	70.36	71.51	72.81	73.32	73.57	73.95	73.86	73.76	73.37	72.7	72.65	71.57
OASPL	86.33	87.81	88.4	88.34	88.25	88.46	88.6	88.65	88.62	88.56	88.73	89.23

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.97	71.41	70.84	70.3	69.85	69.52	69.38	69.55	70.29	71.72	73.84	113.25
100	68.03	68.56	69.19	69.96	70.71	70.92	70.76	70.77	71.34	72.96	76.59	111.38
130	68.65	68.32	68.25	68.66	69.74	71.65	73.37	73.64	73.22	73.25	74.58	112.03
160	70.58	70.43	70.55	70.59	69.65	69.76	71.01	72.27	73.26	73.99	74.74	112.61
200	72.54	72.03	71.36	71.32	72.2	72.09	71.85	72.78	74.02	74.28	74.08	114.4
250	73.97	74.29	74.3	74.34	74.92	75.22	75.37	75.69	75.74	75.29	74.86	116.33
320	75.56	76	76.19	76.28	76.34	76.26	75.97	75.4	74.56	73.64	73.08	117.3
400	75.85	76.03	76.12	76.09	75.88	75.5	74.89	73.98	73.02	72.25	71.81	117.5
500	76.12	76.24	76.32	76.43	76.21	75.79	75.17	74.3	73.13	71.66	70.95	118.22
630	76.77	76.98	76.94	76.76	76.31	75.44	74.39	73.44	72.58	71.72	71.15	118.43
800	77.9	78.04	78.25	78.17	77.27	76.24	75.29	74.33	73.31	72.31	71.7	119.78
1000	79.01	79.08	79	78.81	78.25	77.38	76.27	74.92	73.55	72.44	71.92	120.87
1300	79.22	79.32	79.49	79.29	78.24	77.3	76.5	75.19	74.07	73.54	73.85	121.19
1600	80.08	79.71	79.48	79.53	78.49	77.47	76.79	76.03	75.2	74.52	74.51	121.3
2000	79.94	79.38	79.3	79.69	78.15	76.76	75.82	74.8	73.72	72.7	72.15	120.78
2500	78.85	78.67	78.44	78.06	76.66	75.34	74.35	73.51	72.7	71.9	71.58	119.82
3200	77.25	77.17	76.96	76.4	74.95	73.69	72.77	71.99	71.2	70.51	70.45	118.74
4000	75.65	75.33	74.99	74.52	73.11	71.87	71	70.2	69.4	68.7	68.71	117.78
5000	74.15	73.32	72.97	72.53	70.99	69.69	68.84	67.97	67.16	66.72	67.22	116.71
6300	73.02	71.96	71.47	70.84	69.22	67.87	66.99	66.24	65.56	65.2	65.8	116.24
8000	72.83	71.61	71.2	70.48	68.51	67.09	66.38	65.68	64.61	64.24	65.1	116.32
10000	69.62	68.7	68.93	68.7	66.63	64.79	63.69	62.92	62.04	61.45	62.44	114.54
OASPL	89.61	89.46	89.39	89.29	88.5	87.75	87.16	86.55	85.98	85.58	85.92	131.4

NASA Lewis Allison AST Jet Noise Test 1996

rdg	111
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	735.84
m01	0.30171
pamb	14.196
tamb	502.462
rhumid	74.75
winds1	0
nprc	1.391
nprb	1.444
ptc	19.7466
ptb	20.499
wactc	2.068
wactb	14.499
ttc	1178.25
ttb	505.904
ptmix	20.4051
ttmix	589.83
mixpnd	0.617982
grsvbp	12190.7
badchan	(24,25,28)
bkgnd	97
escdate	18.Nov.96
esctime	17:11:23
DADSdate	97.08.22
DADStime	17:11:23
btchdate	18.Nov.96
btchtime	17:11:23

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Fri Aug 22 13:36:01 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance, (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	46.98	45.68	45.28	45.05	51.6	51.88	50.28	49.08	48.49
80	0	40.27	44.71	44.09	46.73	45.84	48.27	47.18	45.84	45.3	47.74	47.39
100	43.95	43.9	44.81	45.22	44.88	46.54	46.4	46.3	47.75	48.38	47.57	48.91
130	43.74	45.84	48.04	46.98	47.58	48.85	49.97	48.4	48.33	50.16	49.28	50.54
160	45.3	47.15	47.58	48.64	49.29	50.22	51.54	51.14	51.88	51.82	52.31	52.28
200	47.85	49.56	51.46	52.07	52.53	52.78	52.54	51.68	52.76	53.48	54.13	54.89
250	48.54	50.08	50.36	50.42	51.26	52.14	52.48	52.36	52.16	52.09	52.28	52.68
320	47.56	50.82	51.73	52.28	52.53	53.38	53.73	53.17	54.35	54.17	54.08	53.71
400	47.91	50.67	51.8	52.44	53.13	53.47	53.83	54.13	54.46	54.44	54.41	54.51
500	48.37	50.72	51.53	52.11	52.75	54.34	54.42	54.05	54.24	54.35	54.42	54.55
630	49.67	52.56	53.48	53.82	54.46	55.21	56.67	54.86	54.96	55.25	55.37	55.57
800	50.25	52.86	53.79	54.15	54.6	55	55.32	55.52	55.31	54.99	54.97	54.98
1000	51.01	53.29	54.21	54.48	54.78	54.87	54.61	55.37	55.2	54.98	54.96	55.32
1300	50.01	52.17	53.03	53.24	52.95	52.81	52.81	54.36	53.67	53.38	53.56	54.71
1600	47.97	49.85	50.88	51.09	51.16	51.21	51.52	52.98	53	52.73	52.58	53.24
2000	45.06	46.89	48.04	48.26	48.69	49.25	49.77	51.56	51.24	51	51.22	51.69
2500	40.87	43.06	44.79	45.26	45.69	46.31	46.76	49.75	49.3	48.89	48.72	48.84
3200	35.88	38.51	40.68	41.24	41.46	42.22	42.88	46.74	46.46	45.99	45.67	45.43
4000	27.93	31.47	33.97	34.77	34.94	36.23	37.14	42.82	42.34	41.6	41.18	40.53
5000	9.15	18.48	24.03	25.86	26.41	27.97	29.55	37.41	38.89	38.36	36.6	35.1
6300	0	0	0	0	0	0	3.04	29.5	29.21	28.3	27.24	25.93
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	59.71	62.02	63.06	63.52	63.82	64.46	64.73	65.14	66.25	65.18	65.23	65.54
PNL	69.81	72.25	73.36	73.8	74.01	74.38	74.72	74.98	74.85	74.86	74.71	75.04

distance, (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.38	48.17	47.17	46.76	46.53	47.54	44.65	43.11	41.38	40.14	43.96	111.85
80	46.62	48.2	47.74	47.33	46.4	48.03	46.28	44.49	43.09	42.48	43.34	111.07
100	48.93	47.66	48.62	47.94	48.14	48.05	48.5	47.44	45.43	43.5	42.2	111.94
130	49.58	49.03	48.1	48.58	48.22	46.89	48.09	45.99	45.2	43.64	41.39	112.84
160	51.38	52.22	51	50.83	50.52	51.19	46.83	46.31	45.81	43.96	41.97	114.84
200	55.1	55.24	54.85	53.92	53.31	52.05	50.16	49.05	48.33	45.59	41.97	117.29
250	52.91	52.89	52.87	52.52	51.81	50.53	50.63	48.49	45.84	42.73	39.3	115.98
320	53.77	53.47	53.16	52.81	51.85	50.48	49.01	46.62	43.87	40.9	37.57	118.64
400	54.77	54.18	53.58	52.77	51.4	49.42	48.55	46.37	43.47	39.8	35.8	116.9
500	54.54	54.31	53.74	53.03	51.38	49.63	47.24	44.79	41.98	38.4	34.08	116.87
630	55.49	55.29	54.87	53.91	52.38	50.21	47.46	44.85	41.64	37.85	33	117.92
800	55.26	54.86	54.3	53.37	51.39	49.29	47.72	44.54	40.81	36.52	31.5	117.73
1000	55.45	54.79	54.07	53.29	51.15	48.83	46.93	43.78	40.58	37.06	32.59	117.72
1300	55.47	54.14	53.2	52.55	50.11	47.31	46.57	43.68	39.84	35.09	29.11	116.62
1600	53.81	52.69	51.89	50.49	47.74	44.83	44.52	41.29	37.33	32.19	25.46	115.03
2000	51.52	50.58	49.32	47.68	44.78	41.7	41.87	38.6	34.5	29.2	22.04	112.81
2500	48.4	47.2	45.76	43.98	40.83	37.86	38.59	35.06	30.64	24.84	11.1	110.05
3200	44.38	42.72	41.01	39.05	35.75	32.12	34.38	30.38	25.35	15.37	0	106.37
4000	38.86	36.85	35.08	32.98	28.92	24.58	28.28	23.29	13.75	0	0	101.29
5000	32.97	30.39	28.19	24.9	17.64	0	17.17	0	0	0	0	95.19
6300	21.79	18.03	2.81	0	0	0	0	0	0	0	0	86.05
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	65.64	65.18	64.58	63.83	62.42	61.07	59.63	57.7	55.65	53.09	51.31	127.95
PNL	74.98	74.07	73.13	72.04	69.87	67.49	65.08	62.04	58.56	54.16	48.6	73.23

NASA Lewis Allison AST Jet Noise Test 1996

rdg	112
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
ambxc	35.02
amixb	78.39
scale	4
vid	871.73
m01	0.30234
pamb	14.1977
tamb	501.986
rhumid	75.49
winds1	0
nprc	1.542
nprb	1.813
ptc	21.8929
ptb	22.9009
wactc	2.195
wactb	17.12
ttc	1330.61
ttb	505.551
ptmix	22.7863
ttmix	599.312
mixpnd	0.726292
grsvixp	16837.5
badchan	(23,24,25,26)
bkgnd	97
excdate	18 Nov 96
exctime	17:15:46
DADSdate	97.08.19
DADStime	17:15:46
btchdate	18 Nov 96
btchtime	17:15:46

**Scenario: 150 foot arc, 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 18:22:54 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (c	0	0	0	0	0	0	0	0	0	0	0	0
frequency (	55	60	65	70	75	80	85	90	95	100	105	110
80	67.95	69.47	70.11	70.28	70.24	70.16	70.17	70.34	70.73	71.18	71.35	71.14
100	69.47	70.81	71.47	71.73	71.79	71.77	71.74	71.75	71.81	71.96	72.2	72.54
130	70.48	71	71.05	70.85	70.55	70.26	70.05	69.94	69.96	70.12	70.43	70.9
160	71.59	72.73	73.19	73.25	73.14	72.99	72.89	72.89	73.05	73.39	73.96	74.94
200	72.03	73.17	73.77	73.97	73.91	73.78	73.72	73.84	74.22	74.31	74.38	75.59
250	74.09	75.03	75.19	75.04	74.86	74.81	75.01	75.54	76.5	77.27	77.64	78.16
320	75.72	76.44	76.89	76.66	76.51	76.36	76.3	76.38	76.65	77.07	77.6	78.16
400	75.62	76.63	76.95	77.1	77.29	77.49	77.64	77.83	78.13	78.55	79.01	79.46
500	77.4	78.53	78.71	78.7	78.83	79.01	79.13	79.23	79.33	79.47	79.66	79.99
630	78.04	79.49	79.38	79.1	79.26	79.6	79.86	79.83	79.66	79.82	80.19	80.75
800	79.07	80.45	80.76	80.75	80.77	80.84	80.86	80.97	81.15	81.49	82.01	82.6
1000	81.65	82.66	82.93	82.61	82.33	82.13	81.97	81.93	82.05	82.3	82.68	83.5
1300	83.38	84.54	84.3	83.52	82.71	82.09	81.77	81.79	82.16	82.83	83.61	84.45
1600	84.71	85.05	84.19	83.21	82.55	82.22	82.09	82.19	82.55	83.15	83.95	84.84
2000	84.01	83.92	83.57	83.29	83.07	82.86	82.7	82.7	82.96	83.59	84.44	85.31
2500	81.96	82.4	82.72	82.87	82.72	82.37	82.17	82.09	82.38	82.94	83.67	84.77
3200	80.66	80.78	81.44	82.01	81.92	81.61	81.61	81.5	81.74	82.27	82.56	83.44
4000	79.67	79.63	80.29	80.71	80.38	80.69	81.25	80.7	80.94	81.69	82.09	82.57
5000	78.2	78.98	79.68	79.64	78.54	79.18	80.2	79.45	79.45	80.35	80.63	81
6300	77.29	78.14	78.64	78.96	77.57	78.3	78.59	78.66	78.67	79.5	79.28	79.18
8000	76.4	77.32	78.14	78.69	77.05	77.61	78.89	77.95	78.03	78.79	78.65	78.37
10000	75.18	75.57	75.75	76.65	75.6	75.87	76.01	75.18	75.43	76.36	76.11	74.5
OASPL	92.62	93.29	93.33	93.18	92.79	92.73	92.86	92.69	92.92	93.45	93.95	94.6

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (c	0	0	0	0	0	0	0	0	0	0	0	
frequency (	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.89	70.9	71.39	72.38	73.6	74.95	76.33	77.71	79.16	80.89	83.27	116.05
100	72.97	73.49	74.07	74.69	75.34	76	76.69	77.46	78.44	79.86	82.22	116.83
130	71.53	72.29	73.15	74.1	75.12	76.15	77.17	78.19	79.3	80.72	82.84	116.48
160	75.52	75.67	75.62	75.8	76.52	77.36	77.77	77.74	78.38	80.1	82.52	118.07
200	75.34	75.8	77.01	77.9	78.15	78.11	78.18	78.81	79.39	80.5	81.9	118.83
250	78.19	78.18	78.46	79.05	79.27	79.24	79.17	79.26	79.75	80.66	81.59	120.36
320	78.71	79.22	79.72	80.16	80.41	80.23	79.85	79.66	79.66	79.81	79.97	121.08
400	79.85	80.13	80.3	80.33	80.16	79.64	79.41	78.97	78.43	77.94	78.03	121.6
500	80.51	81.06	81.48	81.63	81.35	80.76	79.96	79.07	78.23	77.52	77.18	122.66
630	81.36	81.93	82.31	82.23	81.59	80.87	80.06	78.94	77.79	78.95	76.5	123.17
800	82.94	83.09	83.13	82.85	81.96	81.02	80.11	78.1	78.07	77.22	76.74	124.33
1000	84.14	84.44	84.29	83.87	82.58	81.56	80.59	79.37	78.11	77.17	76.87	125.5
1300	85.12	85.51	85.43	84.74	83.53	82.19	80.89	79.68	78.87	77.96	77.52	126.29
1600	85.48	85.7	85.59	84.98	83.86	82.2	80.63	79.61	78.57	77.84	77.61	126.52
2000	86.04	86.34	86.02	85.14	83.99	82.64	81.27	79.96	78.69	78.17	78.26	126.79
2500	85.51	85.79	85.39	84.51	83.47	82.32	81.16	79.99	78.9	78.07	77.65	126.17
3200	84.48	84.7	84.23	83.33	82.06	80.9	79.87	78.77	77.67	76.86	76.85	125.15
4000	83.12	82.87	82.27	81.63	80.6	78.56	78.56	77.5	76.41	75.51	75.48	123.96
5000	81.35	80.89	80.25	79.66	78.63	77.55	76.56	75.53	74.51	73.75	73.84	122.46
6300	79.57	78.31	78.56	77.62	76.36	75.12	74.07	73.22	72.55	72.18	72.43	121.18
8000	78.33	77.89	76.99	75.83	74.58	73.51	72.7	72.03	71.4	70.86	70.82	120.29
10000	74.71	74.74	74.08	73.17	72.12	70.96	69.92	69.1	68.42	67.77	67.18	117.75
OASPL	95.19	95.4	95.25	94.78	93.95	93.12	92.38	91.74	91.38	91.56	92.53	138.52

NASA Lewis Allison AST Jet Noise Test 1996

rdg	112
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
ambxb	78.39
scale	4
vid	871.73
m01	0.30234
pamb	14.1977
tamb	501.988
rhumid	75.49
winds1	0
nprc	1.542
nprb	1.613
ptc	21.8929
ptb	22.9009
wacic	2.195
wacib	17.12
ttc	1330.61
ttb	505.551
ptmix	22.7863
tmix	599.312
mixpnd	0.726292
grevbp	16837.5
badchan	[23,24,25,26]
bkgnd	97
acqdate	18.Nov.96
acqtime	17.15.46
DADSdate	97.08.19
DADStime	17:15:46
bichdate	18.Nov.96
bichtime	17:15:46

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 16:23:04 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (t	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	48.2	48.59	48.86	51.71	50.48	49.58	48.9	50.3	52.09	51.24	50.63	50.2	52.54	51.75	51.18	50.81	50.44	52.55	51.59	51.23	50.21	49.26	52.15	116.19
80	45.69	49.68	49.99	48.97	50.44	50.05	50.69	51.67	50.84	50.08	52.05	51.44	50.33	51.75	51.73	51.64	50.94	52.49	52.16	51.17	50.25	49.54	49.09	116.12
100	49.65	49.92	50.05	51.46	50.92	51.9	50.97	49.83	49.44	50.91	50.62	53.02	52.83	52.61	53.77	53.12	52.58	53.57	52.3	51.98	51.52	50.99	50.5	117.1
130	49.6	51.01	52.41	52.57	53.35	54.01	53.21	52.71	52.09	52.94	52.72	54.48	53.67	53.52	53.72	55.23	54.34	52.99	52.82	51.46	50.12	49.61	49.4	117.9
160	49.79	51.85	52.28	53.06	53.55	53.93	54.97	53.57	54.18	53.72	54.05	55.68	55.06	55.6	55.32	56.19	55.44	55.34	53.11	52.13	51.08	49.98	49.85	118.94
200	52.55	54.06	55.46	56.07	56.29	56.29	55.84	55.11	57.05	58.07	58.62	59.29	59.04	58.99	58.75	58.02	57.37	55.82	53.89	52.61	52.16	50.75	48.47	121.34
250	52.98	53.87	54.15	54.46	54.84	55.94	56.56	55.77	55.53	55.46	56.5	55.85	56.71	56.94	57.13	56.96	56.28	55.02	54.46	52.73	51.2	49.08	46.18	120
320	52.68	54.85	55.63	56.39	56.95	57.63	57.84	56.91	57.74	57.85	57.99	58.06	58.26	58.39	58.5	58.31	57.18	55.63	53.57	51.61	49.56	46.67	43.86	121.17
400	53.41	55.39	56.31	56.68	57.11	57.62	57.88	57.97	58.09	58.15	58.42	58.56	58.88	58.83	58.7	57.85	56.6	54.87	53.43	51.15	48.39	45.25	41.42	121.31
500	53.85	55.84	56.18	56.7	57.13	57.85	58.33	57.97	58.08	58.39	58.94	59.41	59.59	59.59	58.88	57.84	56.21	54.49	52.85	50.28	47.33	43.83	39.58	121.5
630	54.41	56.75	57.81	58.47	58.94	59.35	58.46	58.86	59.02	59.15	59.3	59.9	60.02	60.25	59.84	58.61	56.46	54.22	52.31	49.6	48.35	42.65	37.84	122.27
800	56.38	58.52	59.42	59.38	60.07	58.73	58.56	59.37	59.43	59.59	59.96	60.52	60.79	60.67	60.05	58.78	56.54	54.03	52.02	48.97	45.52	41.58	36.86	122.69
1000	57.43	59.41	59.7	59.24	58.7	58.37	58.35	58.73	59.15	59.78	60.39	61.04	61.25	60.85	60.17	58.63	56.35	53.61	51.25	48.29	44.73	40.52	35.06	122.76
1300	57.67	58.41	57.88	57.73	57.96	58.26	58.39	58.57	59.03	59.56	60.12	60.67	61.05	60.84	59.77	58.07	55.86	53.13	50.56	47.22	43.48	39.06	33.26	122.31
1600	56.16	56.22	56.75	57	57.1	56.91	56.81	58.4	58.58	59.13	59.69	60.13	60.34	59.91	58.68	56.83	54.44	51.78	49.99	46.49	42.48	37.71	31.65	121.38
2000	51.58	52.66	53.76	54.7	54.95	55.07	55.08	56.82	56.99	57.2	57.55	58.19	58.28	57.85	56.54	54.43	51.76	48.85	48.68	45.03	40.69	35.37	28.35	119.26
2500	47.33	48.41	50.02	51.25	51.34	51.63	52.27	54.8	54.89	55.16	55.12	55.37	55.57	54.72	52.96	50.89	48.3	45.29	45.67	41.84	37.1	31.16	23.25	116.35
3200	41.91	43.44	45.11	46.12	45.91	46.82	47.98	51.78	51.91	52.38	52.36	52.2	51.78	50.17	48.31	46.22	43.35	40	41.89	37.66	32.35	25.51	3.68	112.55
4000	33.95	36.3	38.38	39.35	38.9	40.01	41.51	47.12	48.89	47.47	47.35	46.58	46.01	44.53	42.41	39.67	36.2	32.26	36.1	31.34	25.05	10.35	0	106.97
5000	21.67	25.43	26.32	30.26	29.5	31.06	32.96	40.87	40.89	41.41	40.64	39.68	38.93	37.23	34.57	31.18	26.75	20.92	27.56	20.6	0	0	0	99.96
6300	0	0	0	-1.29	0.47	4.08	13.64	32.11	32.08	32.54	31.6	29.91	28.28	25.58	21.44	12.84	0	0	4.14	0	0	0	0	90.01
8000	0	0	0	0	0	0	0	10.14	9.6	8.75	1.74	0	0	0	0	0	0	0	0	0	0	0	0	67.93
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	65.8	67.42	68.01	68.31	68.46	68.7	68.81	69.03	69.33	69.66	70.04	70.55	70.71	70.57	70.01	69.05	67.51	66.03	64.55	62.71	61.01	59.33	58.56	132.83
PNL	76.9	78.16	78.76	79.15	79.27	79.38	79.5	79.59	79.8	80.11	80.45	80.87	80.96	80.57	79.56	78.05	75.94	73.65	71.02	67.89	64.26	60.65	56.71	78.93

NASA Lewis Allison AST Jet Noise Test 1996

rdg	113
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ACOU
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	907.79
m01	0.30238
pamb	14.195
tamb	501.335
rhumid	75.41
winds1	0
nprc	1.741
nprb	1.822
ptc	24.7135
ptb	25.8633
wactc	2.439
wactb	19.33
ttc	1413.19
ttb	506.157
ptmix	25.7345
ttmix	607.781
mixpnd	0.751048
grsvixp	19761.7
badchan	(03,12,28)
bkgnd	97
eacdate	18.Nov.96
esctime	17:20:03
DADSdate	97.08.19
DADStime	17:20:03
bichdate	18.Nov.96
bichtime	17:20:03

**Scenario: 150 foot arc; 77F, 70%; Full scale: Third-octave SPL

Processing date: Mon Aug 18 16:59.05 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.02	74.56	74.87	75.05	75.14	75.2	75.24	75.29	75.36	75.46	75.61	75.81	76.07	76.43	76.94	77.83	78.51	79.61	80.95	82.57	84.51	86.93	90.27	121.33
100	74.64	75.77	76.37	76.64	76.7	76.67	76.59	76.52	76.5	76.54	76.66	76.92	77.28	77.76	78.37	79.11	80	81.02	82.22	83.64	85.3	87.38	90.24	122.33
130	74.56	75.53	75.92	76	75.91	75.78	75.69	75.67	75.77	76.01	76.43	77.03	77.81	78.63	79.35	79.98	80.71	81.64	82.86	84.44	86.32	88.51	91.18	122.81
160	76.05	76.83	77.28	77.47	77.51	77.49	77.48	77.5	77.58	77.74	78	78.34	78.79	79.35	80	80.76	81.62	82.59	83.69	84.95	86.3	87.74	89.26	123.34
200	77.54	78.28	78.34	78.19	78.1	78.16	78.34	78.6	78.88	79.13	79.34	79.51	79.71	79.93	80.43	81.08	81.79	82.58	83.47	84.44	85.44	86.51	87.66	123.52
250	78.34	79.25	79.18	78.83	78.6	78.65	78.95	79.42	79.87	80.49	80.91	81.22	81.55	82.22	83.01	83.6	84.06	84.49	84.94	85.47	86.08	86.61	87.54	124.65
320	79.4	80.53	80.5	80.09	79.74	79.86	80.14	80.06	80.4	80.64	81.02	81.67	82.18	82.63	83.2	83.66	83.89	84.24	84.6	84.77	84.78	84.75	84.74	124.92
400	80.63	81.33	81.35	81.2	81.17	81.34	81.45	81.54	81.82	82.28	82.66	82.85	83.09	83.5	84.18	84.5	83.96	83.66	83.7	83.92	83.91	83.51	83.59	125.56
500	81.66	82.92	82.53	82.27	82.48	82.67	82.37	82.18	82.41	82.9	83.4	83.72	83.63	84.15	85.08	85.73	84.67	84.15	83.96	83.74	83.32	82.77	82.3	126.33
630	81.82	83.15	83.08	83	83.09	83.2	83.33	83.54	83.57	83.38	83.58	84.29	84.83	85.66	86.05	85.63	84.84	83.98	83.24	82.68	82.08	81.34	80.84	126.79
800	83.9	84.93	84.85	84.54	84.39	84.49	84.71	84.87	85.07	85.4	85.75	86.07	86.36	86.76	87	86.64	85.6	84.62	83.85	83.11	82.43	82	82.16	128.14
1000	84.84	85.44	85.36	85.26	85.31	85.4	85.58	85.87	86.22	86.7	87.22	87.71	88.14	88.41	88.41	87.71	86	84.5	83.49	82.76	82.13	81.63	81.59	129.18
1300	86.87	86.81	86.57	86.53	86.57	86.51	86.45	86.65	87.08	87.68	88.39	89.15	89.64	89.68	89.25	88.38	87.18	85.79	84.38	83.14	82.24	81.85	81.97	130.29
1600	87.85	88.09	87.97	87.84	87.5	87.4	87.63	87.93	88.26	88.84	89.64	90.89	90.96	90.72	90.26	89.47	88.28	86.82	85.39	84.25	83.49	83.33	84.09	131.52
2000	88.7	89.05	88.86	88.65	88.37	88.2	88.15	88.39	88.9	89.66	90.53	91.29	91.44	91.4	91.02	90.23	89.08	87.5	85.8	84.39	83.47	83.26	84.1	132.19
2500	88.39	88.51	88.68	88.92	88.93	88.66	88.44	88.39	88.65	89.47	90.55	91.64	91.78	91.94	91.7	90.84	89.53	87.67	85.73	84.35	83.41	82.81	82.9	132.39
3200	88.41	88.57	89.02	89.47	89.67	89.37	88.71	88.52	88.8	89.76	91.15	92.32	91.69	91.77	91.64	90.63	89.37	87.57	85.59	84.08	83.03	82.47	82.84	132.62
4000	88.36	88.87	89.08	89.51	89.48	89.18	88.88	88.77	88.98	89.63	90.76	91.81	90.98	90.84	90.79	89.86	88.35	86.48	84.64	83.31	82.4	81.93	82.44	132.24
5000	87.07	88.54	88.65	88.76	88.56	88.64	88.39	88.18	88.08	88.77	89.99	91.02	89.97	89.77	89.75	88.74	87.08	85.11	83.27	81.91	81	80.61	81.15	131.41
6300	85.86	87.57	88	88.02	88.03	88.18	87.98	87.66	87.4	87.68	88.8	90.12	88.81	88.7	88.73	87.59	85.66	83.56	81.8	80.7	80.07	79.81	80.39	130.53
8000	84.44	86.35	87.11	87.38	87.59	87.73	87.52	87.18	87.19	87.6	88.56	89.43	87.78	87.64	87.85	86.72	84.7	82.67	81.06	80.09	79.39	78.94	79.44	129.87
10000	82.07	84.38	84.23	84.82	85.89	86.06	84.86	84.4	84.84	85.41	85.69	85.24	84.03	84.41	85.11	84.43	82.53	80.2	78.24	77.2	76.51	75.9	76.25	127.22
OASPL	98.14	98.86	98.99	99.1	99.11	99.05	98.86	98.82	99.04	99.62	100.54	101.4	101.1	101.15	101.12	100.44	99.29	98.1	97.23	96.91	97.04	97.68	99.12	142.48

NASA Lewis Allison AST Jet Noise Test 1996

rdg	113
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	907.79
m01	0.30238
pamb	14.195
tamb	501.335
rhumid	75.41
winds1	0
nprc	1.741
nprb	1.622
ptc	24.7135
ptb	25.8633
wactc	2.439
wactb	19.33
ttc	1413.19
ttb	508.157
ptmix	25.7345
ttmix	607.781
mixpnd	0.751048
gravwp	19761.7
badchan	(03,12,26)
bkgnd	97
escdate	18.Nov.96
esctime	17:20:03
DADSdate	97.08.19
DADStime	17:20:03
btchdate	18.Nov.96
btchtime	17:20:03

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 16:59:16 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (i	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	53.02	53.71	54.15	54.88	55.5	54.76	54.27	55.25	56.42	55.42	54.87	54.58	57	58.19	55.64	55.41	55.3	57.59	56.21	56.08	55.56	55.3	58.9	121.28
80	51.25	54.49	54.87	53.84	55.77	55.66	56.19	56.45	55.17	54.44	56.34	55.66	54.49	56.62	56.59	56.59	56.13	57.97	57.71	57.34	57.09	56.98	56.95	121.73
100	54.03	54.27	54.47	55.44	54.91	56.56	55.85	55.56	55.35	56.31	55.98	57.86	57.49	57.08	56.38	58.18	57.88	58.8	58	58.23	58.52	58.78	58.89	122.84
130	53.98	55.28	56.58	56.6	57.54	58.37	57.77	57.32	56.58	57.77	57.28	58.11	57.71	58.18	57.35	58.38	58.04	57.65	58.74	58.67	58.13	57.3	55.98	122.95
160	55.27	56.9	58.88	57.07	57.59	58.07	58.92	58.32	58.54	58.11	58.58	59.18	58.95	59.91	59.78	60.48	60.11	60.58	58.44	57.95	57.1	55.98	55.29	123.66
200	56.5	57.74	58.75	59.09	59.24	59.5	59.67	58.99	60.05	60.97	61.65	61.79	61.42	61.64	61.8	61.22	60.8	59.82	59.81	58.81	58.24	56.79	54.54	124.98
250	56.83	58.3	58.89	58.63	58.98	60.04	60.4	58.44	59.46	59.36	59.41	59.83	60.29	60.66	61.18	61.29	60.02	58.67	59.19	57.86	56.39	54.13	51.18	124.14
320	57.44	59.32	59.66	60.3	60.63	61.06	60.88	60.63	61.24	61.64	61.74	61.52	61.59	61.58	62.05	62.17	60.65	59.07	57.88	56.56	54.85	52.02	49.13	124.91
400	57.83	59.74	59.88	59.94	60.73	61.24	61.62	60.93	61.18	61.45	61.95	62.17	62.4	62.48	62.38	61.48	59.92	58.08	57.44	55.83	53.52	50.47	46.63	124.93
500	57.73	59.89	60.44	60.79	61.19	61.99	62.48	61.66	62.13	62.08	62.18	62.65	62.86	62.93	62.7	61.75	59.91	58.14	56.2	54.04	51.47	48.05	43.81	125.23
630	59.06	60.85	61.5	61.76	61.95	62.29	62.87	62.76	62.66	63.5	63.9	64.32	64.22	64.04	63.52	62.26	59.81	57.09	56.07	53.64	50.78	47.59	43.55	126.08
800	59.5	60.91	61.44	62.07	62.75	62.98	63.18	63.31	63.67	63.94	64.51	64.78	64.97	64.67	63.78	62.3	60.12	57.61	54.84	52.34	49.52	45.89	41.23	126.48
1000	60.55	61.48	62.24	62.77	63.12	63.43	63.91	63.59	64.11	64.54	65.19	66.04	66.24	65.72	64.65	62.96	60.82	58.15	54.74	51.74	48.33	44.51	39.84	127.22
1300	60.98	62.21	62.74	63.21	63.2	63.5	63.75	64.31	64.75	65.33	66.2	66.91	66.53	65.66	64.68	63.02	60.79	57.88	55.08	51.84	48.43	44.63	39.92	127.62
1600	60.29	61.45	61.84	62.34	62.82	62.94	62.97	64.09	64.54	65.26	65.79	66.18	65.86	65.37	64.51	62.81	60.3	56.98	54.48	50.87	47.01	42.68	37.27	127.12
2000	58.21	59.3	60.28	61.42	62.2	62.27	61.86	63.1	63.27	63.95	65.02	65.76	65.18	64.64	63.65	61.48	58.81	55.35	53.19	49.38	45.28	40.19	33.45	126.14
2500	55.25	56.71	58.09	59.33	59.88	60.02	59.85	61.76	62.04	62.82	63.63	64.47	63.07	62.29	61.1	58.88	55.92	52.18	51.32	47.14	42.5	36.85	29.34	124.24
3200	50.76	52.8	54.09	55.23	55.6	55.91	55.84	59.83	59.94	60.32	61.1	61.74	59.96	58.61	57.49	55.15	51.66	47.38	47.88	43.43	38.34	31.93	22.78	121.1
4000	42.66	45.88	47.47	48.39	49.21	49.95	50.19	55.8	55.62	55.83	56.49	56.86	54.92	53.81	52.19	49.39	45.28	40.48	42.69	37.64	31.68	23.56	0	116.07
5000	31.21	35.14	37.45	39	40.27	40.98	41.4	49.89	49.61	49.69	50.3	50.81	48.37	46.75	45.25	41.91	37.1	31.5	35.2	29.47	21.4	0	0	109.43
6300	0	15.4	21.23	23.81	25.76	27.31	28.97	41.29	41.29	41.25	41.46	41.2	37.91	35.91	33.81	28.8	23.61	9.44	24.75	12.08	0	0	0	99.87
8000	0	0	0	0	0	0	0	26.47	26.48	26.14	24.95	21.92	16.24	8.31	0	0	0	0	0	0	0	0	0	83.19
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	70.06	71.5	72.11	72.63	73.02	73.39	73.57	73.9	74.2	74.65	75.24	75.75	75.47	75.18	74.58	73.5	71.81	70.38	69.29	68.08	66.97	65.78	65.33	137.6
PNL	81.83	83.23	83.9	84.49	85.07	85.33	85.3	85.55	85.76	86.28	87.06	87.64	87.03	86.55	85.73	84.04	81.68	78.93	76.02	72.97	69.89	67.02	63.7	84.87

100%L, 20UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	443
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	606.19
m01	0.00353
pamb	14.4747
tamb	495.349
rhumid	76.9
winds1	0
nprc	1.167
nprb	1.216
ptc	16.892
ptb	17.6012
wactc	1.962
wactb	9.753
ttc	1105.74
ttb	504.443
ptmix	17.4824
ttmix	605.147
mixpnd	0.502613
grsvlsp	7101.52
badchan	[26]
bkgnd	429
escdate	04.Dec.96
esctime	21:34:35
DADSdate	04.Dec.96
DADStime	21:34:35
blchdate	04.Dec.96
blchtime	21:34:35

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:18:37 1997

Data ambi	14.30 psia
Data ambi	536 0 R
Data ambi	70 00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	63.25	64.17	65.02	65.81	66.54	67.24	67.9	68.53	69.13	69.72	70.3	70.88	71.47	72.09	72.74	73.43	74.18	74.99	75.87	76.81	77.81	76.86	0	114.74
100	64.04	64.91	65.67	66.34	66.93	67.48	68.01	68.53	69.07	69.66	70.32	71.06	71.89	72.79	73.75	74.76	75.81	76.86	77.75	78.34	76.45	77.97	0	115.58
130	63.67	64.4	64.98	65.45	65.86	66.23	66.62	67.05	67.57	68.21	69.02	70	71.12	72.31	73.51	74.65	75.87	76.5	77.08	77.24	76.93	75.99	0	114.75
160	65.69	66.36	66.94	67.45	67.92	68.37	68.82	69.3	69.83	70.42	71.1	71.86	72.66	73.48	74.26	74.97	75.58	76.12	76.85	77.15	77.44	77.09	0	115.49
200	66.08	66.72	67.44	68.17	68.84	69.43	70.01	70.63	71.31	72.08	72.9	73.76	74.31	74.77	75.34	75.9	76.17	75.97	75.48	74.8	74.07	73.35	0	115.8
250	67.11	68.18	69.1	69.9	70.6	71.25	71.87	72.49	73.13	73.83	74.61	75.49	76.38	77.2	77.86	78.27	78.33	78.03	77.43	76.54	75.3	73.74	0	117.78
320	68.14	68.95	69.74	70.47	71.1	71.6	72.02	72.42	72.87	73.44	74.18	75.11	76.14	77.11	77.69	78.32	78.23	77.57	76.5	75.17	73.74	72.41	0	117.55
400	67.36	68.31	69.18	69.99	70.78	71.58	72.36	73.07	73.73	74.44	75.3	76.3	77.21	77.71	77.56	77.05	76.63	75.79	74.44	73.08	71.7	70.09	0	117.36
500	67.95	69.09	69.69	70.49	71.05	71.66	72.17	72.56	73.13	74.02	74.93	75.63	76.44	77.3	77.93	76.11	77.38	75.9	74.47	73.11	71.71	70.03	0	117.33
630	67.67	69.13	70.26	71.13	71.81	72.35	72.83	73.32	73.87	74.43	75.08	75.78	76.56	77.4	77.65	77.42	76.21	74.63	73.17	71.85	70.66	70.11	0	117.27
800	67.71	69.16	69.87	70.24	70.66	71.34	72.17	72.91	73.45	74	74.62	75.43	76.31	77.12	77.72	76.86	75.21	73.49	72.07	70.76	69.76	68.62	0	116.75
1000	67.06	68.53	69.05	69.31	69.7	70.4	71.3	72.22	72.99	73.62	74.25	74.98	75.82	76.65	77.04	76.16	74.2	72.43	71.2	69.69	67.91	66.44	0	116.09
1300	66.35	67.43	68.01	68.53	69.17	69.99	70.9	71.48	71.95	72.38	72.91	73.63	74.51	75.79	76.44	75.4	73.26	71.44	69.97	68.56	66.87	65.49	0	115.14
1600	65.42	66.67	67.34	67.87	68.46	69.17	69.81	70.48	71.09	71.56	72.24	72.89	73.76	74.98	76.11	75.22	72.58	70.67	69.18	67.81	66.32	64.51	0	114.47
2000	64.57	65.5	65.98	66.42	67.03	67.81	68.47	69.13	69.86	70.37	71.06	72.06	72.91	73.86	74.72	73.86	71.8	69.77	67.95	66.31	64.63	63.06	0	113.3
2500	63.35	64.41	64.86	65.48	66.03	66.56	67.3	68.01	68.59	68.85	69.82	70.78	71.31	72.05	72.89	71.63	69.62	68.01	66.22	64.56	63.11	61.7	0	111.71
3200	62.48	63.64	64.2	64.63	65.24	66.06	66.62	67.38	67.83	68.08	68.67	69.66	70.44	71.29	71.67	70.24	68.17	66.27	64.41	62.79	61.09	59.13	0	110.72
4000	61.43	62.62	63.26	63.86	64.45	65.34	66.23	66.57	67.18	67.76	68.42	69.25	69.31	69.76	70.03	68.89	67.1	64.93	62.83	60.88	58.57	56.54	0	109.74
5000	60.13	61.76	62.36	62.73	63.37	64.62	65.73	66.37	66.92	67.53	68.24	68.89	68.87	69.3	69.41	67.98	65.86	63.5	61.35	59.33	56.94	55.27	0	109.17
6300	59.43	61.23	61.88	62.43	63.18	64.46	65.72	66.57	67.34	67.99	68.42	69.25	69.58	70.03	69.52	67.38	65.13	62.88	60.63	58.19	55.25	53.77	0	109.33
8000	59.2	61.17	61.79	62.39	63.3	64.79	66.26	67.06	67.87	68.59	69.41	70.34	70.36	70.5	69.94	68.12	65.79	62.92	60.35	57.61	54.42	53.26	0	109.82
10000	57.12	58.89	59.68	61.03	62.58	63.9	64.86	65.4	66.35	67.01	67.7	68.06	68.66	69.62	69.6	67.54	64.61	61.32	58.31	55.66	52.6	51.34	0	108.55
OASPL	78.7	79.82	80.56	81.17	81.79	82.47	83.15	83.76	84.36	84.97	85.69	86.5	87.28	88.1	88.66	88.43	87.81	87.23	86.76	86.36	85.94	85.41	0	128.37

[Flyover data point A for 100%L, 20UH (file T443.xls) not processed]

NASA Lewis Allison AST Jet Noise Test 1996

rdg	442
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
enoz	41.226
ambrc	35.02
ambxb	78.39
scale	4
vid	825.09
m01	0.00185
pamb	14.4777
tamb	495.338
rhumid	79.87
winds1	0
nprc	1.385
nprb	1.438
ptc	20.0516
ptb	20.6189
wactc	2.768
wactb	13.523
ttc	1179.3
ttb	505.054
ptmix	20.6686
ttmix	619.615
mixpnd	0.676077
grsvixp	13441.5
badchan	(26)
bkgnd	429
escdate	04.Dec.96
esctime	21:26:03
DADSdate	97.06.18
DADStime	21:26:03
btchdate	04.Dec.96
btchtime	21:26:03

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:39:29 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.68	74.65	75.48	76.19	76.8	77.33	77.79	78.22	78.62	79.02	79.43	79.9
100	76.22	77.14	77.67	77.97	78.15	78.32	78.53	78.82	79.21	79.76	80.47	81.38
130	74.25	74.63	74.98	75.28	75.57	75.91	76.3	76.77	77.34	78.03	78.85	79.83
160	75.25	75.82	76.32	76.82	77.39	78.06	78.8	79.59	80.33	80.61	80.83	81.05
200	76.88	77.14	77.65	78.27	78.99	79.78	80.58	81.24	81.72	81.92	82.31	83.23
250	77.18	77.84	78.55	79.27	79.93	80.51	80.96	81.19	81.5	81.99	82.71	83.97
320	78.12	78.92	79.44	79.84	80.23	80.54	80.79	81.03	81.44	81.98	82.15	82.88
400	77.26	78.52	79.36	79.77	80.32	81.01	81.52	81.77	82.22	83.25	83.96	84.67
500	77.82	78.36	79.26	80.28	80.23	80.4	80.94	81.61	82.17	82.75	83.23	84.13
630	77.95	79.11	79.77	80.34	80.72	81.2	81.84	82.12	82.31	82.87	83.74	84.05
800	77.8	79.17	79.88	80.26	80.66	81.14	81.45	81.94	82.48	83.15	84.33	84.94
1000	78.01	79.56	80.34	80.68	80.93	81.33	82.04	82.56	83.03	83.45	84.02	84.84
1300	78.32	80.1	80.78	80.99	80.98	81.22	81.85	82.04	82.4	82.98	83.65	84.46
1600	78.69	80.48	80.83	80.89	81.09	81.41	81.58	81.82	82.24	82.83	83.68	84.52
2000	78.26	79.76	80.32	80.52	80.55	80.58	80.71	81.05	81.45	82.05	83.12	83.94
2500	76.23	77.55	78.32	78.91	79.17	79.48	80.08	80.48	80.82	81.29	82.13	83.22
3200	74.88	76.09	76.86	77.35	77.6	78.18	79.21	79.76	80.04	80.39	81.12	82.08
4000	73.48	74.64	75.58	76	76.04	76.78	78.12	78.46	78.79	79.39	80.06	80.62
5000	71.86	73.44	74.05	74.21	74.13	75.17	76.79	77.29	77.42	77.94	78.88	79.43
6300	70.12	71.75	72.46	72.74	72.88	73.79	76.02	76.82	76.88	77.15	77.85	78.07
8000	68.76	70.37	71.11	71.51	71.55	72.81	75.57	76.15	76.26	76.69	77.4	77.8
10000	65.52	66.96	67.98	68.9	69.6	71	73.04	73.74	74.02	74.33	75.18	74.61
OASPL	89.86	90.87	91.52	91.95	92.24	92.68	93.29	93.71	94.11	94.65	95.35	96.1

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.49	81.29	82.39	83.86	85.8	88.1	90.42	92.38	93.62	93.74	0	127.6
100	82.47	83.73	85.12	86.63	88.21	89.77	91.07	91.82	91.39	90.48	0	127.77
130	80.95	82.23	83.67	85.34	87.27	89.25	90.85	91.84	91.61	89.87	0	127.07
160	82.78	84.58	85.4	86.09	87.48	89.27	90.37	90.5	90.51	89.85	0	127.3
200	84.16	84.92	86.27	87.65	88.52	88.49	87.89	87.05	86.29	85.34	0	126.92
250	84.53	85.92	87.01	87.39	88.12	88.61	88.55	88.11	86.42	83.96	0	127.23
320	83.86	85.06	86.48	86.72	87.06	87.54	87.69	86.64	84.82	82.7	0	126.55
400	85.1	85.62	86.9	86.84	86.94	86.8	86.12	84.8	83.53	82.38	0	126.74
500	84.85	85.93	86.79	87.1	87.17	86.73	85.78	84.57	82.38	80.4	0	126.57
630	84.78	85.79	86.36	86.86	86.26	85.08	83.89	82.57	80.89	79.34	0	126.26
800	85.79	86.71	86.44	85.98	85.55	84.32	83.2	82	80.45	79.02	0	126.34
1000	85.78	86.36	86.3	85.17	84.33	83.64	82.67	81.33	79.48	77.58	0	126.2
1300	85.73	87	86.98	85.09	84.07	82.95	81.87	80.78	79.25	77.19	0	126.15
1600	85.44	87.11	87.21	84.2	83.75	82.65	81.07	79.51	78.08	76.5	0	126.02
2000	85.28	87.17	86.83	83.79	82.96	82.01	80.63	79.25	77.6	75.58	0	125.56
2500	84.53	86.32	86.25	83.27	82.16	80.86	79.28	77.87	76.44	74.2	0	124.86
3200	83.23	85.03	84.98	82.49	81.34	79.63	77.83	76.57	74.69	72.53	0	123.51
4000	81.28	82.35	82.65	80.88	79.68	77.82	75.89	74.54	72.46	70.49	0	121.8
5000	79.55	80.09	80.19	78.68	77.48	75.8	73.85	71.88	69.61	67.64	0	120.05
6300	78.26	78.61	78.38	76.58	75.44	73.84	71.95	69.92	67.01	65.28	0	118.72
8000	77.58	77.33	76.78	75.37	74.27	72.42	70.37	68.31	65.49	63.84	0	117.88
10000	74.55	74.88	74.6	72.92	71.24	69.26	66.74	64.93	62.65	60.85	0	115.32
OASPL	97	98.19	98.69	98.29	98.62	99.01	99.38	99.58	99.27	98.39	0	130.03

NASA Lewis Allison AST Jet Noise Test 1996

rdg	442
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	825.09
m01	0.00185
pamb	14.4777
tamb	495.338
rhumid	79.87
winds1	0
nprc	1.385
nprb	1.438
ptc	20.0516
ptb	20.8189
wactc	2.768
wactb	13.523
ttc	1179.3
ttb	505.054
ptmix	20.6886
ttmix	619.615
mixpnd	0.676077
grsvixp	13441.5
badchan	(26)
bkgnd	429
escdate	04.Dec.96
esctime	21:26:03
DADSdate	97.08.18
DADStime	21:26:03
blchdate	04.Dec.96
blchtime	21:26:03

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:39:38 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4365.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.9	53.35	54.58	55.8	56.45	57.15	57.72	58.18	58.54	58.84	59.09	59.31	59.59	59.99	60.6	61.49	62.73	64.19	65.51	66.27	66.03	64.29	0	127.51
100	54.4	55.8	56.74	57.35	57.78	58.12	58.43	58.75	59.11	59.55	60.1	60.76	61.54	62.4	63.3	64.22	65.09	65.81	66.11	65.65	63.73	60.94	0	127.85
130	52.38	53.24	53.99	54.8	55.15	55.66	56.15	56.66	57.2	57.78	58.43	59.16	59.97	60.84	61.79	62.87	64.09	65.22	65.81	65.58	63.84	60.19	0	126.86
160	53.3	54.38	55.26	56.09	56.91	57.74	58.58	59.4	60.11	60.49	60.34	60.31	61.73	63.12	63.45	63.54	64.22	65.15	65.22	64.11	62.6	59.99	0	127
200	54.6	55.57	56.49	57.44	58.4	59.36	60.27	60.97	61.41	61.51	61.73	62.39	63	63.34	64.2	64.96	65.1	64.21	62.56	60.44	58.11	55.16	0	126.52
250	54.9	56.09	57.22	58.27	59.19	59.94	60.49	60.76	61.03	61.42	61.97	62.98	63.2	64.18	64.74	64.51	64.49	64.1	62.95	61.2	57.86	53.3	0	126.63
320	55.62	56.95	57.91	58.64	59.29	59.78	60.15	60.42	60.8	61.22	61.22	61.69	62.32	63.06	63.96	63.58	63.15	62.71	61.74	59.32	55.77	51.43	0	125.7
400	54.4	58.21	57.5	58.24	59.06	59.94	60.57	60.86	61.27	62.18	62.71	63.16	63.24	63.3	64.04	63.31	62.62	61.5	59.64	56.86	53.77	50.23	0	125.55
500	54.34	55.66	57.02	58.39	58.63	58.99	59.65	60.35	60.86	61.33	61.61	62.24	62.6	63.21	63.5	63.1	62.33	60.88	58.68	55.91	51.77	47.15	0	124.94
630	54.13	55.91	57.06	58.01	58.69	59.38	60.14	60.48	60.62	61.06	61.73	61.74	62.09	62.6	62.57	62.13	60.82	58.54	56.03	53.08	49.24	44.81	0	124.2
800	53.43	55.45	56.67	57.47	58.18	58.87	59.31	59.85	60.35	60.89	61.85	62.16	62.59	63	62.09	60.84	59.46	57.09	54.55	51.55	47.69	43.13	0	123.79
1000	53.09	55.31	56.63	57.4	57.97	58.59	59.44	60	60.44	60.73	61.06	61.56	62.07	62.11	61.37	59.43	57.59	55.67	53.19	49.95	45.61	40.3	0	123.15
1300	52.8	55.28	56.52	57.18	57.51	57.96	58.75	58.99	59.31	59.75	60.18	60.65	61.48	62.18	61.46	58.71	56.62	54.19	51.5	48.34	44.1	38.35	0	122.54
1600	52.46	55	55.96	56.49	57.04	57.61	57.92	58.21	58.6	59.04	59.63	60.12	60.57	61.63	60.99	57.08	55.46	53	49.66	45.92	41.58	35.95	0	121.8
2000	51.2	53.49	54.68	55.38	55.79	56.08	56.36	56.75	57.1	57.55	58.36	58.79	59.62	60.87	59.73	55.72	53.69	51.24	47.97	44.17	39.34	32.86	0	120.52
2500	47.97	50.16	51.62	52.76	53.41	53.96	54.74	55.22	55.49	55.78	56.34	57.04	57.82	58.91	57.97	53.91	51.46	48.53	44.87	40.88	35.78	28.5	0	118.53
3200	44.64	47.01	48.54	49.64	50.34	51.21	52.43	53.06	53.26	53.44	53.86	54.37	54.92	55.95	54.93	51.22	48.55	44.98	40.63	36.55	30.52	22.13	0	115.77
4000	40.63	43.14	44.78	45.91	46.5	47.59	49.13	49.54	49.81	50.19	50.47	50.52	50.49	50.75	49.92	46.7	43.75	39.71	34.97	29.89	22.5	0	0	111.66
5000	34.8	37.81	39.51	40.57	41.09	42.53	44.33	44.92	44.99	45.26	45.8	45.74	45	44.44	43.23	40.04	36.67	32.3	26.74	18.55	0	0	0	106.28
6300	26.36	29.65	31.9	33.23	34.01	35.69	38.15	38.06	39	38.95	38.93	38.54	37.68	36.76	34.85	30.82	26.67	20.43	0.71	0	0	0	0	99.27
8000	0	13.92	19.74	22.3	23.87	26.09	29.53	30.27	30.25	30.27	30.24	29.62	27.86	25.66	22.29	14.56	0	0	0	0	0	0	0	89.77
10000	0	0	0	0	0	0	0	0	0.62	-2.66	0	0	0	0	0	0	0	0	0	0	0	0	0	65.31
OASPL	65.58	67.22	68.34	69.19	69.83	70.47	71.09	71.54	71.94	72.37	72.81	73.29	73.82	74.49	74.68	74.22	74.14	73.99	73.61	72.75	71.09	68.38	0	137.3
PNL	73.24	75.35	76.62	77.48	78.05	78.64	79.4	79.86	80.21	80.56	81.08	81.59	82.15	82.95	82.46	80.04	78.9	77.51	75.69	73.37	70.27	66.2	0	80.82

1

NASA Lewis Allison AST Jet Noise Test 1996

rdg	441
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	943.87
m01	0.00396
pamb	14.4782
tamb	495.06
rhumid	81.62
winds1	0
nprc	1.541
nprb	1.616
ptc	22.3109
ptb	23.3968
wactc	3.037
wactb	15.971
ttc	1321.21
ttb	504.086
ptmix	23.2233
ttmix	634.642
mixpnd	0.764194
grsvixp	17941.1
badchan	(26)
bkgnd	429
escdate	04.Dec.96
esctime	21:18:49
DADSdate	97.08.18
DADStime	21:18:49
btchdate	04.Dec.96
btchtime	21:18:49

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:42:05 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	77.61	78.75	79.51	79.99	80.25	80.38	80.46	80.57	80.78	81.18	81.84	82.81
100	78.68	79.42	80.02	80.54	81	81.46	81.94	82.47	83.04	83.68	84.33	85.09
130	79.27	79.91	80.35	80.69	81.03	81.43	81.83	82.12	82.3	82.8	83.23	84.32
160	81.64	82.43	82.99	83.28	83.28	83.23	83.68	84.39	85.08	85.88	86.91	87.78
200	81.77	82.34	83.09	84.06	84.41	83.96	83.92	84.95	86.21	86.36	86.59	88.83
250	82.31	82.59	82.75	83.04	83.61	84.43	85.03	85.39	85.64	86.06	86.85	88.03
320	82.52	82.92	83.08	83.28	83.79	84.61	84.97	85.12	85.33	85.84	86.86	87.95
400	81.63	82.18	82.74	83.34	84	84.98	85.9	86.57	86.84	87.34	88.15	89.38
500	82.48	82.92	83.35	83.82	84.31	84.85	85.44	85.93	86.28	86.88	87.55	89.09
630	82.11	82.99	83.57	84.06	84.57	85.11	85.74	86.45	87.1	87.39	87.83	88.78
800	82.56	83.65	84.03	84.39	85.12	85.71	86.08	86.77	87.56	87.88	88.44	89.43
1000	83.23	84.63	85.08	85.3	85.53	85.82	86.12	86.6	87.06	87.68	89.08	89.63
1300	83.97	85.47	85.69	85.69	85.79	85.9	86.08	86.9	87.44	87.94	88.71	89.72
1600	84.04	85.58	85.5	86.23	85.82	86.15	86.66	87.23	87.67	88.11	88.99	90.31
2000	84.02	84.89	85.04	85.33	85.97	86.42	86.57	87.07	87.46	88.08	89.23	90.4
2500	82.07	83.41	84.01	84.81	85.38	85.48	86	86.79	86.9	87.37	88.54	90.19
3200	80.87	82.18	82.88	83.41	84.17	84.71	85.28	86.02	86.45	86.75	87.59	89.13
4000	79.69	81.11	81.47	81.78	82.35	83.2	83.99	84.45	84.94	85.61	86.55	87.73
5000	77.89	79.42	79.79	79.84	80.42	81.45	82.5	83.13	83.51	84.12	84.93	86.03
6300	76.29	77.91	78.26	78.42	78.97	80.07	81.3	82.18	82.53	82.91	83.36	84.23
8000	74.96	76.67	77.11	77.22	77.68	78.85	80.42	81.23	81.52	81.92	82.49	83.31
10000	71.51	72.86	73.65	74.58	75.73	76.78	77.38	78.05	78.52	78.85	79.31	79.27
OASPL	94.8	95.82	96.19	96.54	97	97.46	97.96	98.56	99.03	99.49	100.33	101.42

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	84.11	85.72	87.63	89.83	92.3	94.92	97.36	99.29	100.38	100.31	0	133.87
100	86.01	87.19	88.68	90.52	92.71	95.07	97.06	98.07	98.12	97.84	0	133.11
130	85.74	87.27	88.86	90.74	93.15	95.57	97.28	98.53	98.57	97.05	0	133.3
160	87.9	88.52	90.38	92.81	94.98	96.41	97.14	97.29	97.11	96.91	0	133.75
200	88.22	89.84	90.96	91.85	92.82	93.48	93.5	93.2	92.2	91.61	0	131.73
250	89.22	90.47	91.41	92.2	93.98	95.04	94.49	93.6	92.83	91.21	0	132.38
320	89.17	90.48	91.5	92.84	93.6	93.02	92.92	92.32	90.77	89.42	0	131.77
400	90.32	90.72	91.67	92.04	92.44	92.42	91.5	90.47	89.25	88.1	0	131.65
500	89.75	90.6	91.53	91.97	92.42	92.23	91.67	90.88	88.55	86.46	0	131.46
630	90.08	90.88	91.22	91.71	91.57	91.07	89.85	88.57	86.73	84.81	0	131.14
800	90.42	91.2	91.3	91.28	91.25	90.29	88.91	87.67	86.17	84.68	0	131.22
1000	90.98	91.93	91.37	90.56	90.11	89.36	88.18	87.08	85.74	84.11	0	131.22
1300	91.29	92.37	91.35	90.01	89.93	89.15	88.09	86.95	85.17	83.75	0	131.32
1600	91.6	92.51	91.89	89.69	89.11	88.28	87.26	86.02	84.55	83.08	0	131.35
2000	91.69	92.61	91.45	89.6	88.51	87.61	86.45	85.25	83.71	82.08	0	131.25
2500	91.82	92.75	91.27	88.96	87.97	87	85.89	84.63	82.89	80.92	0	130.87
3200	91.07	92.24	90.64	88.29	86.98	85.76	84.58	83.31	81.37	79.62	0	130.08
4000	88.94	89.75	88.94	87.21	85.89	84.38	82.92	81.51	79.12	77.46	0	128.42
5000	86.95	87.65	86.93	85.3	83.93	82.45	81.08	79.29	76.24	74.72	0	126.6
6300	85.02	85.62	85.03	83.31	81.99	80.34	78.92	76.72	72.66	71.81	0	124.93
8000	83.53	83.71	83.03	81.89	80.57	79.04	77.37	74.5	69.99	69.39	0	123.61
10000	79.64	80.22	80.31	78.94	77.85	76.02	73.7	71.09	66.41	65.7	0	120.43
OASPL	102.84	103.6	103.58	103.81	104.37	105.05	105.58	105.98	105.87	105.19	0	144.57

NASA Lewis Allison AST Jet Noise Test 1996

rdg	441
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	943.67
m01	0.00398
pamb	14.4782
tamb	495.06
rhumid	81.62
winds1	0
nprc	1.541
nprb	1.616
ptc	22.3109
ptb	23.3968
wactc	3.037
wactb	15.971
ttc	1321.21
ttb	504.086
ptmix	23.2233
ttmix	834.842
mixpnd	0.784194
grsvlxp	17941.1
badchan	[26]
bkgnd	429
ascdate	04.Dec.96
asctime	21:18:49
DADSdate	97.08.18
DADStime	21:18:49
blchdate	04.Dec.96
blchtime	21:18:49

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:42:13 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	55.82	57.45	58.61	59.4	59.9	60.2	60.38	60.52	60.7	61	61.49	62.23	63.21	64.42	65.84	67.48	69.23	71.02	72.46	73.18	72.8	70.86	0	133.78
100	56.86	58.08	59.09	59.92	60.83	61.25	61.84	62.4	62.94	63.46	63.96	64.47	65.06	65.86	66.86	68.1	69.59	71.12	72.1	71.9	70.48	68.1	0	132.96
130	57.4	58.53	59.37	60.03	60.61	61.18	61.68	62.01	62.15	62.35	62.81	63.66	64.75	65.88	66.96	68.27	69.97	71.55	72.25	72.27	70.8	67.38	0	133.09
160	59.69	60.96	61.93	62.55	62.79	62.91	63.47	64.21	64.85	65.56	66.42	67.05	66.85	67.06	68.43	70.26	71.71	72.28	71.99	70.9	69.19	67.05	0	133.44
200	59.7	60.77	61.92	63.22	63.82	63.56	63.62	64.68	65.9	65.95	66.01	66	67.07	68.27	68.88	69.17	69.4	69.19	68.16	66.6	64.03	61.45	0	131.32
250	60.06	60.84	61.43	62.04	62.86	63.85	64.57	64.96	65.18	65.5	66.11	67.03	67.88	68.72	69.15	69.33	70.33	70.51	68.89	66.69	64.29	60.56	0	131.74
320	60.02	60.95	61.54	62.08	62.65	63.86	64.33	64.51	64.68	65.09	65.92	66.75	67.64	68.52	69.02	69.51	69.69	68.18	66.96	64.99	61.74	58.2	0	130.9
400	58.77	59.86	60.88	61.83	62.75	63.8	64.95	65.66	65.89	66.28	66.9	67.85	68.46	68.41	68.83	68.53	68.12	67.12	65.03	62.57	59.54	55.97	0	130.44
500	59.19	60.2	61.1	61.94	62.71	63.43	64.14	64.66	64.96	65.27	65.94	67.2	67.5	67.87	68.24	67.99	67.58	66.39	64.59	62.02	57.94	53.22	0	129.79
630	58.29	59.78	60.85	61.74	62.54	63.29	64.05	64.6	65.41	65.57	65.81	66.45	67.39	67.66	67.42	67.17	66.12	64.55	62	59.05	55.08	50.32	0	129.03
800	58.2	59.92	60.82	61.59	62.62	63.43	63.92	64.67	65.42	65.59	65.96	66.64	67.22	67.49	66.95	66.15	65.16	63.05	60.25	57.22	53.4	48.79	0	128.61
1000	58.31	60.37	61.38	62.02	62.58	63.09	63.52	64.04	64.45	64.94	66.12	66.34	67.26	67.69	66.45	64.84	63.38	61.4	58.7	55.67	51.86	46.81	0	128.11
1300	58.44	60.64	61.44	61.9	62.33	62.66	62.98	63.85	64.34	64.71	65.23	65.91	67.03	67.56	65.83	63.62	62.48	60.38	57.71	54.54	50.04	44.91	0	127.65
1600	57.81	60.11	60.84	60.84	61.57	62.34	63	63.83	64.02	64.32	64.95	65.9	66.73	67.04	65.47	62.56	60.85	58.62	55.9	52.44	48.04	42.55	0	127.1
2000	56.97	58.73	59.4	60.16	61.2	61.9	62.21	62.76	63.11	63.58	64.46	65.25	66.03	66.31	64.36	61.55	59.23	56.82	53.78	50.18	45.46	39.35	0	126.24
2500	53.78	56	57.29	58.62	59.61	60	60.67	61.52	61.57	61.86	62.76	64.01	65.09	65.32	62.97	59.59	57.28	54.67	51.48	47.51	42.23	35.22	0	124.78
3200	50.83	53.06	54.35	55.7	56.93	57.77	58.53	59.33	59.68	59.78	60.32	61.42	62.75	63.15	60.57	56.99	54.17	51.11	47.58	43.22	37.14	29.48	0	122.34
4000	46.84	49.41	50.7	51.74	52.81	53.99	55.01	55.53	55.96	56.44	56.09	57.62	58.2	58.14	56.17	52.98	48.89	46.2	41.97	36.86	29.54	19.62	0	118.25
5000	40.91	43.78	45.24	46.25	47.38	48.83	50.1	50.82	51.14	51.46	51.89	52.41	52.42	52.07	49.95	46.63	43.12	38.89	34.02	27.78	16.34	0	0	112.77
6300	32.7	36.05	37.73	38.93	40.28	41.93	43.52	44.49	44.71	44.78	44.86	44.77	44.58	43.84	41.48	37.55	33.33	28.12	21.29	0	0	0	0	105.37
8000	19.62	24.96	27.47	29.02	30.54	32.48	34.49	35.47	35.55	35.53	35.44	35.28	34.19	32.58	29.38	24.66	18.06	0	0	0	0	0	0	95.54
10000	0	0	0	0	-2.01	11.48	16.06	18.08	18.59	18.33	17.63	15.05	10.69	-2.73	0	0	0	0	0	0	0	0	0	76.37
OASPL	70.46	71.9	72.79	73.56	74.28	74.89	75.46	78.07	78.53	78.86	77.46	78.2	78.96	79.47	79.42	79.45	79.89	80.06	79.85	79.22	77.75	75.22	0	142.78
PNL	78.78	80.59	81.49	82.47	83.37	84	84.68	85.41	85.7	86.01	86.72	87.65	88.53	88.85	87.54	85.68	84.78	83.9	82.15	80.15	77.29	73.69	0	86.69

NASA Lewis Allison AST Jet Noise Test 1996

rdg 440
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbid NATR full wedge
rigbid JER w/ external supplement
mixbid NO20
nozbid BASE
anoz 41.226
ambc 35.02
ambb 78.39
scale 4
vid 998.8
m01 0.00242
pamb 14.4779
tamb 495.02
rhumid 80.96
winds1 0
nprc 1.738
nprb 1.822
ptc 25.1826
ptb 26.3787
wacic 3.433
wacib 18.291
ttc 1399.36
ttb 503.729
ptmix 26.1865
ttmix 645.264
mixpnd 0.800378
grsvinp 21654.5
badchan (26)
bkgnd 429
escdate 04.Dec.96
esctime 21:14:32
DADSdate 97.08.18
DADStime 21:14:32
bichdate 04.Dec.96
bichtime 21:14:32
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 09:44:44 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	81.8	82.65	83.39	84.04	84.62	85.18	85.66	86.14	86.61	87.09	87.59
100	83.66	84.29	84.64	84.84	85.01	85.23	85.5	85.83	86.23	86.8	87.63
130	84.24	84.62	84.86	85	85.08	85.17	85.3	85.52	85.87	86.4	87.12
160	84.71	85.2	85.65	86.14	86.72	87.39	86.07	86.57	86.82	89.08	89.58
200	85.73	85.91	86.02	86.24	86.77	87.53	87.96	88.3	88.95	89.9	90.48
250	85.35	85.82	86.29	86.72	87.03	87.26	87.71	88.51	89.13	89.78	90.75
320	85.74	86.23	86.79	87.33	87.73	87.89	87.95	88.38	89.11	89.98	90.7
400	85.21	85.81	86.51	87.25	88.01	88.71	89.23	89.52	90.07	91.2	91.81
500	86.28	86.72	87.09	87.46	87.73	87.93	88.25	88.91	89.58	90.17	91.2
630	86.3	86.97	87.34	87.54	87.69	87.93	88.58	89.61	90.48	90.67	91.01
800	86.9	87.5	87.81	87.99	88.17	88.49	88.92	89.43	90.2	91.09	91.58
1000	87.05	87.89	88.3	88.48	88.58	88.84	89.39	90.05	90.99	92.07	93
1300	87.27	88.13	88.46	88.66	88.88	89.29	90.05	90.53	91.2	91.91	92.64
1600	88.22	89.19	89.31	89.22	89.47	90	90.26	90.47	91.16	92.38	93.34
2000	89	89.79	89.89	90.06	90.24	90.5	90.94	90.99	91.26	92.38	93.62
2500	88.6	89.16	89.36	89.76	90.2	90.72	91.29	91.36	91.74	92.59	94.06
3200	87.51	88.46	88.86	89.43	89.75	90.26	91.04	91.14	91.46	92.3	93.8
4000	87.08	88.12	88.48	88.76	88.9	89.69	90.87	90.37	90.82	91.97	93.41
5000	85.8	87.21	87.56	87.68	87.53	88.4	89.67	89.79	90.02	90.76	92.21
6300	84.56	85.71	86.03	86.3	86.41	87.36	88.91	88.95	89.31	90.27	91.33
8000	83.12	84.61	84.86	84.99	85.18	86.47	88.4	88.22	88.64	89.5	90.68
10000	80.02	80.74	81.11	82.06	83.08	84.36	85.36	85.24	85.84	86.63	87.73
OASPL	99.53	100.3	100.63	100.82	101.2	101.7	102.39	102.65	103.19	104.03	106.02

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	88.15	88.88	89.89	91.29	93.19	95.66	98.56	101.42	103.72	104.98	104.83	0	138.14
100	88.8	90.29	92.08	94.16	96.5	99.07	101.69	103.9	105.29	105.56	104.54	0	139.68
130	88.12	89.45	91.19	93.34	95.79	98.4	100.99	103.3	105.02	105.44	103.94	0	139.22
160	90.41	91.47	92.71	94.26	96.28	98.42	100.55	102.34	103.13	103.39	103.32	0	138.54
200	91.36	91.91	93.27	94.75	96.23	97.24	97.6	97.93	98.64	98.57	98.76	0	136.13
250	92.07	93.48	95.02	96.59	97.94	99.04	99.81	100.04	99.75	98.65	97.04	0	137.33
320	91.33	92.4	93.75	95.01	96.07	98.11	98.48	97.27	96.38	95.67	94.81	0	135.83
400	92.9	94	94.23	95.56	96.6	96.82	96.41	95.59	94.99	93.49	91.77	0	135.57
500	92.39	93.38	94.47	95.58	96.65	97.21	96.12	95.46	94.29	92.38	90.79	0	135.37
630	92.02	93.78	95.07	95.36	95.68	95.66	95.08	93.82	92.38	90.5	88.43	0	134.88
800	92.8	94.49	95.03	95.11	95.38	95.23	93.88	93.11	91.97	90.19	88.54	0	134.98
1000	93.75	94.9	95.05	94.43	94.35	93.98	92.88	91.95	91.12	89.69	88.41	0	134.85
1300	93.72	95.52	96.09	94.72	93.76	93.72	92.75	91.31	90.2	89.14	88.2	0	135
1600	94.46	96.92	97.03	94.64	93.76	93.31	92.46	91.6	90.8	89.64	88.58	0	135.52
2000	95.45	97.9	97.98	95.23	93.51	92.81	92.14	91.12	90.16	89.02	87.98	0	136.01
2500	96.1	98.7	98.69	95.84	93.79	92.8	91.85	90.65	89.6	88.35	86.96	0	138.39
3200	95.93	98.48	98.81	95.99	93.66	92.27	90.83	89.47	88.44	86.85	85.51	0	136.16
4000	95.45	97.49	97.34	95.12	92.82	91.15	89.43	87.87	86.65	84.71	82.97	0	135.3
5000	94.15	95.95	95.74	93.61	91.25	89.72	88.03	86.4	84.91	82.74	80.89	0	133.96
6300	93.15	95.16	94.88	92.71	89.94	88.06	86.46	84.89	83.1	80.44	78.63	0	132.99
8000	92.69	94.22	93.67	91.72	89.26	87.23	85.26	83.47	81.55	79.11	77.52	0	132.11
10000	89.24	91.03	91	89.82	87.29	84.72	82.01	79.57	78.06	76.16	74.3	0	129.28
OASPL	108.49	108.36	108.73	108	108.17	108.96	109.77	110.77	111.68	111.88	111.05	0	149.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg 440
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 996.8
m01 0.00242
pamb 14.4779
tamb 495.02
rhumid 80.96
winds1 0
nprc 1.738
nprb 1.822
ptc 25.1626
ptb 26.3787
wactc 3.433
wactb 18.291
ttc 1399.38
ttb 503.729
ptmix 26.1865
ttmix 645.264
mixpnd 0.800378
grsvexp 21654.5
badchan (26)
bkgnd 429
escdate 04.Dec.96
esctime 21:14:32
DADSdate 97.08.18
DADStime 21:14:32
btchdate 04.Dec.96
btchtime 21:14:32
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:44:53 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4365.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.02	61.35	62.49	63.46	64.28	64.98	65.58	66.09	66.53	66.91	67.24	67.57	67.98	68.59	69.51	70.82	72.58	74.65	76.51	77.61	77.38	75.18	0	138.05
100	61.84	62.98	63.71	64.23	64.64	65.02	65.4	65.78	66.13	66.6	67.26	68.18	69.35	70.75	72.34	74.09	75.96	77.73	78.95	79.12	77.9	75	0	139.54
130	62.37	63.24	63.88	64.34	64.67	64.92	65.15	65.4	65.72	66.15	66.7	67.45	68.47	69.81	71.47	73.32	75.22	76.97	78.26	78.76	77.67	74.26	0	138.99
160	62.76	63.74	64.8	65.41	66.23	67.08	67.85	68.38	68.61	68.76	69.09	69.68	70.41	71.25	72.32	73.72	75.15	76.43	77.19	76.75	75.47	73.45	0	138.2
200	63.65	64.34	64.86	65.41	66.18	67.12	67.65	68.03	68.64	69.48	69.87	70.52	70.75	71.7	72.67	73.55	73.83	73.32	72.8	72.05	70.41	66.6	0	135.68
250	63.09	64.07	64.97	65.73	66.29	66.69	67.25	68.08	68.67	69.22	70	71.07	72.14	73.27	74.33	75.05	75.41	75.28	74.44	72.84	70.31	66.4	0	136.66
320	63.24	64.25	65.25	66.13	66.79	67.13	67.3	67.78	68.48	69.22	69.76	70.13	70.87	71.79	72.51	72.93	74.19	73.65	71.31	69.08	66.65	63.6	0	134.92
400	62.35	63.5	64.64	65.73	66.75	67.64	68.28	68.61	69.14	70.14	70.57	71.39	72.14	71.92	72.7	73.08	72.5	71.11	69.12	67.09	63.78	59.67	0	134.34
500	62.99	64	64.84	65.58	66.13	66.53	66.96	67.66	68.28	68.76	69.59	70.51	71.13	71.75	72.3	72.88	72.4	70.29	68.38	65.67	61.78	57.55	0	133.69
630	62.49	63.78	64.63	65.22	65.86	66.11	66.88	67.96	68.79	68.86	68.98	69.71	71.08	71.87	71.57	71.15	70.22	68.55	65.97	62.88	58.89	53.94	0	132.74
800	62.54	63.77	64.62	65.2	65.69	66.22	66.78	67.33	68.07	68.82	69.1	70.01	71.3	71.32	70.78	70.25	69.16	66.65	64.47	61.56	57.48	52.68	0	132.21
1000	62.14	63.66	64.61	65.21	65.63	66.11	66.79	67.5	68.4	69.34	70.08	70.47	71.18	70.81	69.52	68.61	67.24	64.91	62.45	59.72	55.78	51.09	0	131.74
1300	61.74	63.31	64.21	64.85	65.4	66.04	66.94	67.49	68.11	68.67	69.17	69.92	71.25	71.28	69.19	67.38	66.27	63.99	60.93	57.77	54.01	49.34	0	131.34
1600	61.99	63.71	64.42	64.8	65.41	66.19	66.61	66.87	67.5	68.58	69.29	70.05	72.05	71.58	68.42	66.63	65.05	62.79	60.2	57.18	53.11	48	0	131.24
2000	61.91	63.5	64.23	64.91	65.46	65.97	66.58	66.67	66.9	67.87	68.84	70.29	72.24	71.67	68.12	65.42	63.52	61.37	58.49	55.12	50.78	45.3	0	130.98
2500	60.33	61.74	62.63	63.56	64.42	65.22	65.96	66.07	66.39	67.08	68.27	69.89	71.95	71.25	67.52	64.38	62.07	59.48	56.23	52.5	47.69	41.23	0	130.29
3200	57.44	59.36	60.62	61.69	62.47	63.3	64.25	64.42	64.66	65.32	66.48	68.19	70.13	69.68	65.86	62.33	59.45	56.17	52.46	48.36	42.65	35.4	0	128.48
4000	54.22	56.4	57.66	58.68	59.32	60.48	61.96	61.43	61.84	62.75	63.8	65.32	66.7	65.68	62.34	58.6	55.16	51.24	46.84	41.97	35.18	26.27	0	125.21
5000	48.85	51.63	53.03	53.95	54.4	55.73	57.51	57.45	57.59	58.08	59.11	60.45	61.4	60.03	58.55	52.58	48.92	44.51	39.31	33.3	24.69	0	0	120.19
6300	40.96	43.82	45.49	46.83	47.72	49.19	51.1	51.28	51.49	52.13	52.57	53.56	54.63	53.04	49.11	44.04	39.4	34.29	28.18	18.83	0	0	0	113.42
8000	29.37	33.34	35.45	37.01	38.06	40.02	42.45	42.4	42.62	43.18	43.62	44.59	44.65	42.35	38.01	32.62	26.81	18.17	0	0	0	0	0	103.91
10000	0	7.67	13.45	19.41	22.51	25.4	27.38	27.47	27.84	28.08	28.28	28.52	28.34	25.37	19.56	0	0	0	0	0	0	0	0	88.07
OASPL	74.49	75.71	76.58	77.29	77.92	78.53	79.14	79.81	80.18	80.8	81.41	82.27	83.44	83.7	83.52	83.92	84.48	84.86	85.18	85.05	83.85	81.13	0	147.61
PNL	83.86	85.35	86.31	87.15	87.88	88.66	89.44	89.71	90.14	90.84	91.73	92.98	94.55	94.24	92.06	90.42	89.68	88.78	87.44	86.22	83.88	80.15	0	91.89

NASA Lewis Allison AST Jet Noise Test 1996

rdg	436
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	574.01
m01	0.2007
pamb	14.4434
tamb	495.216
rhumid	81.97
winds1	0
nprc	1.169
nprb	1.215
ptc	16.8843
ptb	17.5487
wacic	1.719
wactb	9.582
ttc	1101.6
ttb	499.592
ptmix	17.4477
ttmix	591.164
mixpnd	0.481526
grsvixp	6486.89
badchan	(26)
bkgnd	430
escdate	04.Dec.96
esctime	20:50:20
DADSdate	04.Dec.96
DADStime	20:50:20
btchdate	04.Dec.96
btchtime	20:50:20

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:12:38 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	47.72	59.93	60.37	60.81	61.25	61.67	62.1	62.52	62.94	63.36	63.77	64.17	64.55	64.91	65.22	65.5	65.74	65.92	66	65.96	65.84	65.8	66.41	106.66
100	58.81	59.34	59.51	59.77	60.23	60.81	61.37	61.79	61.98	61.88	61.64	61.7	62.14	62.94	63.91	64.87	65.62	66.1	66.48	66.35	65.78	65.51	66.22	105.83
130	54.54	56.86	59.11	60.74	60.58	61.29	60.95	60.97	61.28	61.78	62.13	62.39	61.97	61.89	62.98	64.02	64.69	65.63	66.07	66.21	66.39	66.85	67.24	105.64
160	48.47	60.1	59.74	58.59	59.94	61.02	61.54	61.28	61.06	62.3	63.45	63.96	63.63	63.45	64.22	64.35	64.52	65.8	66.14	65.87	65.52	64.81	64.33	105.87
200	56.78	60.99	61.12	62.15	63.17	63.56	64.49	64.94	64.49	64.12	65.51	66.97	67.8	68.37	69	69.16	68.74	68.24	68.11	67.69	66.76	65.86	64.85	109.02
250	64.03	66.29	67.54	68.22	68.66	68.8	68.95	69.17	69.53	70.14	71.02	71.95	72.92	73.76	74.39	74.72	74.73	74.44	73.84	72.93	71.81	70.67	69.66	114.45
320	65.11	66.66	67.73	68.29	68.37	68.33	68.43	68.76	69.27	69.76	70.26	70.9	71.72	72.81	73.41	73.98	74.18	73.89	73.04	71.65	69.86	67.52	64.17	113.89
400	63.56	65.62	66.54	67.09	67.67	68.18	68.81	69.67	70.41	70.91	71.3	71.71	72.14	72.62	73.11	73.43	73.37	72.73	71.48	69.82	68.08	66.52	55.59	113.49
500	64.96	67.02	67.91	68.26	68.52	68.93	69.43	69.78	70.12	70.58	71.22	72	72.82	73.54	74.08	74.31	74.11	73.37	72.08	70.39	68.63	67.09	64.73	114.09
630	65.2	67.5	68.35	68.59	68.79	69.17	69.76	70.46	70.9	71.18	71.48	71.88	72.47	72.92	73.31	73.44	73.05	71.99	70.02	67.98	66.31	65.03	64.96	113.74
800	65.14	67.27	67.59	67.65	67.92	68.35	69.13	69.91	70.79	71.37	71.77	72.08	72.41	73.03	73.75	73.85	72.82	70.74	68.15	65.99	64.53	63.7	63.47	113.54
1000	64.85	66.6	67	67.17	67.55	68.2	68.83	69.5	70.26	70.68	71.05	71.36	71.41	71.77	72.36	72.52	71.71	69.94	67.43	65.24	63.81	63.24	63.28	112.7
1300	63.89	65.52	66.14	66.62	67.15	67.67	68.22	68.69	69.51	69.79	69.78	69.72	70.04	70.63	71.36	71.56	70.65	68.67	66.43	64.41	62.94	62.23	62.46	111.71
1600	62.74	64.45	65.2	65.66	66.12	66.63	67.21	67.65	67.86	67.97	68.07	68.26	68.79	69.65	70.51	70.84	70.08	68.15	65.86	63.86	62.36	61.5	61.49	110.61
2000	60.96	62.46	63.37	64.03	64.63	65.23	65.77	66.16	66.53	66.96	67.27	67.47	67.62	68.38	69.3	69.34	68.26	66.58	64.8	62.88	61.09	60.09	59.92	109.28
2500	59.41	60.86	61.76	62.41	62.99	63.62	64.25	64.69	65.02	65.32	65.69	65.96	66.12	66.72	67.41	67.08	65.8	64.2	62.4	60.62	59.11	58.14	58.09	107.52
3200	59.23	60.65	61.5	62.15	62.67	63.29	64.1	64.4	64.62	64.79	64.69	65.06	65.32	65.79	66.49	66.29	64.93	63.18	61.19	59.14	57.41	56.46	56.61	106.86
4000	58.56	60.43	61.18	61.93	62.56	63.36	64.2	64.35	64.69	64.96	65.09	65.04	64.7	64.8	65.08	64.98	63.73	61.86	59.9	57.69	55.75	54.77	54.96	106.41
5000	57.88	60.13	61.17	61.8	62.42	63.55	64.63	65.01	65.14	65.37	65.56	65.49	64.96	64.79	64.96	64.53	63.24	61.56	59.59	57.4	55.45	54.4	54.41	106.58
6300	58.02	60.31	61.69	62.6	63.26	64.3	65.65	66.09	66.42	66.64	66.55	66.34	66.1	65.99	66.11	65.42	63.78	61.98	60.06	57.91	55.94	54.94	54.87	107.54
8000	58.69	61.36	62.59	63.34	64.02	65.14	66.51	67.01	67.34	67.65	67.69	67.51	67.19	67.1	66.93	66.1	64.7	63.11	61.19	58.83	56.78	55.79	55.64	108.5
10000	58.56	60.16	61.32	62.72	63.86	64.63	65.12	65.67	65.9	65.98	66.34	66.49	65.35	65.92	66.25	65.81	64.47	62.4	60.07	57.52	55.25	54.1	54.07	107.34
OASPL	75.17	77.33	78.11	78.59	79.02	79.52	80.12	80.62	81.08	81.45	81.84	82.21	82.63	83.19	83.79	83.98	83.54	82.65	81.43	80.11	78.85	77.81	76.91	124.16

NASA Lewis Allison AST Jet Noise Test 1996

rdg	436
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	574.01
m01	0.2007
pamb	14.4434
tamb	495.216
rhumid	81.97
winds1	0
nprc	1.169
nprb	1.215
ptc	16.8643
ptb	17.5487
wacic	1.719
wacib	9.582
ttc	1101.6
ttb	499.592
ptmix	17.4477
ttmix	591.164
mixpnd	0.481528
grawup	6486.89
badchan	(26)
bkgnd	430
escdate	04.Dec.96
esctime	20:50:20
DADSdate	04.Dec.96
DADStime	20:50:20
blchdate	04.Dec.96
blchtime	20:50:20

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 05:12:43 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	36.15	39.73	39.75	39.6	39.56	39.51	41.75	42.48	41.08	43.81	43.54
100	32.25	34.3	37.31	39.74	39.86	40.26	41.08	41.72	41.08	40	38.9
130	33.22	37.92	36.03	38.39	38.84	39.5	41.47	40.85	40.94	41.86	41.75
160	0	38.78	38.54	39.61	42.76	42.56	44.3	41.1	40.44	42.3	43.44
200	37.11	41.12	43.5	43.94	46.33	46.3	46.57	44.67	43.67	44.06	45.14
250	43.45	46.08	47.95	48.92	48.84	48.71	48.32	48.72	50.14	50.51	51.75
320	41.49	42.86	43.92	44.68	45.71	46.81	47.58	48.17	48.28	48.47	48.06
400	40.77	43.82	45.36	46.2	46.72	47.35	48.06	48.76	49.57	50.03	50.39
500	41.05	44.06	45.53	46.43	47	47.49	48.06	48.51	49	49.54	50.04
630	40.92	43.74	44.81	44.83	45.36	46	47.04	48.82	49.13	49.45	49.52
800	40.44	42.85	43.68	44.06	44.58	45.46	46.26	47.82	48.6	48.89	48.66
1000	38.93	41.28	42.36	43.06	43.74	44.41	45.13	46.93	47.58	47.89	47.98
1300	37.2	39.5	40.58	41.57	42.35	42.98	43.6	45.86	46.32	46.37	46.09
1600	34.77	37.13	38.58	38.55	40.23	40.87	41.5	44.05	44.11	43.93	43.74
2000	31.74	33.91	35.4	36.6	37.63	38.52	39.06	41.86	42.09	42.28	42.21
2500	29.06	31.4	33	34.27	35.27	36.21	37.27	39.44	39.69	39.76	39.74
3200	26.03	28.76	30.31	31.75	32.84	34.06	35.06	37.84	37.84	37.76	37.49
4000	19.62	24.22	26.37	27.9	29.19	30.74	32.1	35.37	35.71	35.86	35.71
5000	0	5.89	17.2	21.13	23.38	25.55	27.32	32.56	32.67	32.75	32.57
6300	0	0	0	0	0	5.72	15.61	28.06	28.53	28.56	28.12
8000	0	0	0	0	0	0	0	17.73	18.28	18.57	17.43
10000	0	0	0	0	0	0	0	0	0	0	0
OASPL	50.65	53.5	54.81	55.58	56.29	56.74	57.6	58.19	58.64	59.01	59.3
PNL	56.88	59.86	61.29	62.29	63.19	63.86	64.78	65.32	65.57	65.81	65.92

distance: (	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	43.38	43.29	43.18	43.02	44.67	43.83	42.75	41.29	39.65	37.74	35.64	33.52	106.63
100	41.76	40.94	39.95	40.24	40.48	42.22	42.21	41.44	39.81	37.9	36.38	34.48	105.15
130	41.67	41.06	41.89	41.87	41.8	41.33	41.37	41.66	40.42	39.21	36.89	33.69	105.55
160	43.34	44.21	43.68	43.82	43.02	42.73	41.95	40.67	39.26	38.14	35.17	30.61	106.55
200	46.48	46.88	47.27	48.62	48.22	47.31	47.89	46.4	44.34	41.6	39.83	35.6	110.68
250	52.34	53.15	53.41	53.55	53.08	52.5	50.9	48.68	46.38	42.95	38.7	33.53	114.98
320	48.48	49	49.09	49.64	49.32	49.2	47.64	45.69	42.31	38.83	34.87	0	111.67
400	50.59	50.47	50.72	50.62	50.37	49.12	47.72	45.1	42.23	38.54	34.7	28.87	112.65
500	50.51	50.84	51.03	50.74	50	48.83	46.73	43.88	40.29	36.39	32.09	27.07	112.48
630	49.45	49.62	49.81	49.68	49.01	47.32	44.6	40.84	36.95	33.47	29.6	25.55	111.43
800	48.65	48.48	48.75	48.98	48.38	48.46	43.22	39.14	35.15	31.26	27.35	22.61	110.57
1000	47.79	47.38	47.1	47.21	46.72	44.78	41.57	37.38	33.24	29.37	25.5	20.7	109.34
1300	45.49	45.25	45.14	45.14	44.48	42.67	39.42	35.69	31.7	27.54	23.08	17.28	107.54
1600	43.71	43.86	43.86	43.93	43.08	40.82	37.68	33.74	29.54	25.1	20.06	0.12	105.68
2000	41.91	41.41	41.42	41.13	39.89	37.56	34.29	30.47	26.21	21.47	9.42	0	103.29
2500	39.55	39.21	38.98	38.88	37.51	34.8	31.28	27.23	22.6	13.12	0	0	100.88
3200	37.18	36.73	36.3	35.9	34.46	31.54	27.86	23.47	13.79	0	0	0	98.48
4000	35.07	34.07	32.94	32.03	30.41	27.45	23.5	12.8	0	0	0	0	95.68
5000	31.88	30.58	29.45	28.4	28.23	21.59	4.38	0	0	0	0	0	92.02
6300	27.33	26.08	24.32	21.81	18.4	0	0	0	0	0	0	0	86.9
8000	13.76	1.78	0	0	0	0	0	0	0	0	0	0	75.36
10000	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	59.55	59.77	59.89	60.02	59.55	58.56	56.97	54.76	52.22	49.33	46.33	42.2	121.98
PNL	65.97	65.95	65.9	65.75	65.03	63.38	61.13	57.93	54.26	49.81	44.55	38.45	66.05

NASA Lewis Allison AST Jet Noise Test 1996

rdg 437
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 819.27
m01 0.19952
pamb 14.4437
tamb 495.272
rhumid 80.98
winds1 0
nprc 1.388
nprb 1.439
ptc 20.0479
ptb 20.7845
wactc 2.784
wactb 13.487
ttc 1174.14
ttb 500.699
ptmix 20.6584
ttmix 615.926
mixpnd 0.873315
grsvfrp 13330.3
badchan (26)
bkgnd 430
escdate 04.Dec.96
esctime 20:57:15
DADSdate 97.08.18
DADStime 20:57:15
btchdate 04.Dec.96
btchtime 20:57:15
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 09:31:35 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	67.01	67.95	68.61	69.42	69.64	70.54	72.28	71.45	71.35	71.84	72.5	73.08
100	69.51	70.27	70.77	71.09	71.32	71.51	71.69	71.9	72.18	72.57	73.15	73.81
130	69.73	69.88	69.8	69.71	69.73	69.93	70.28	70.74	71.25	71.79	72.31	72.82
160	69.79	70.71	71.48	71.98	72.07	71.81	71.6	71.83	72.58	73.33	73.93	74.88
200	70.99	71.56	72.03	72.51	73	73.39	73.34	73.05	73.24	73.85	74.6	75.48
250	73.8	72.59	72.98	73.8	74.09	74.01	74.42	75.23	75.84	76.13	76.74	78.04
320	73.2	74.04	74.27	74.55	74.77	74.81	74.99	75.61	76.34	76.54	76.88	78.07
400	72.7	74.07	74.52	74.54	74.74	75.37	75.98	76.49	76.96	77.51	78.36	78.96
500	73.52	75.13	75.51	74.87	75.84	76.79	76.78	77.07	77.51	77.64	78.11	77.99
630	74.24	76.17	76.52	76.44	76.88	77.48	77.46	77.53	77.83	78.24	78.26	78.61
800	74.98	76.92	76.99	76.98	77.31	77.84	78.23	78.62	78.93	79.28	79.44	79.77
1000	76.58	78.77	78.29	78.44	78.68	78.97	79.12	79.12	79.3	79.68	79.89	80.27
1300	77.88	79.39	79.22	79.53	79.84	80.07	79.71	79.8	79.71	79.72	79.94	80.33
1600	78.17	79.83	80.12	79.9	79.69	79.44	78.99	78.95	78.92	78.78	79.54	80.41
2000	77.48	78.9	79.34	79.33	79.03	78.64	78.37	78.51	78.59	78.67	79.43	80.51
2500	75.8	76.94	77.81	77.88	77.44	77.34	77.61	77.83	77.69	77.56	78.14	79.26
3200	73.3	74.39	74.87	75.1	75.31	75.94	76.65	76.82	76.67	76.62	77.18	78.1
4000	71.86	72.96	73.32	73.65	73.64	74.39	75.07	75.16	75.28	75.34	75.77	76.6
5000	70.27	71.79	72.51	72.48	72.32	73.16	74.2	74.38	74.09	73.97	74.44	74.99
6300	69.05	70.65	71.63	71.83	71.68	72.53	73.67	74.09	73.81	73.48	73.42	73.63
8000	68.46	70.27	71.14	71.55	71.54	72.34	73.69	74.07	73.63	73	73.03	73.42
10000	67.08	67.82	68.68	69.81	70.63	71.29	71.67	72.09	71.67	70.57	70.48	70.35
OASPL	87.17	88.58	88.85	88.94	89.08	89.33	89.51	89.68	89.85	89.99	90.43	91.09

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.51	73.9	74.26	74.7	75.28	76.01	76.9	77.88	78.97	80.3	82.27	116.74
100	74.24	74.64	75.26	76.11	77.12	78.21	79.31	80.57	81.89	83.07	84.08	118.48
130	73.4	74.11	74.91	75.28	75.74	77.08	78.36	79.17	79.57	80.01	81.03	117.05
160	75.29	75.42	75.91	76.52	77.32	78.38	79.33	80.03	80.45	80.67	80.93	118.29
200	76.14	76.72	77.24	77.77	78.37	79.01	79.6	79.67	79.37	79.46	79.25	118.79
250	78.46	78.36	78.53	79.21	80.1	80.75	80.69	80.49	80.34	80.14	79.34	120.33
320	78.62	79.01	79.15	79.63	80.29	80.42	79.97	79.35	78.7	77.74	76.98	120.38
400	78.83	79.55	79.98	79.82	79.07	78.77	78.57	78.14	77.32	76.18	74.95	120.43
500	78.53	79.5	80.2	80.38	80.13	79.62	78.95	78.17	77.2	75.88	74.4	120.78
630	79.24	79.59	79.89	79.54	78.82	78.24	77.48	76.65	75.87	74.91	73.51	120.83
800	79.98	80.51	81.24	80.66	79.19	78.08	76.94	75.94	75.01	74.08	73	121.58
1000	80.66	81.16	81.63	80.59	78.73	77.59	76.59	75.53	74.3	73.11	72.14	122.15
1300	80.94	81.53	82.24	81.44	79.27	77.5	76.19	75.11	74.01	72.92	71.92	122.65
1600	80.99	81.76	82.64	81.92	79.39	77.56	76.45	75.36	74.07	72.89	72.08	122.64
2000	81.26	81.88	82.64	81.88	79.31	77.55	76.21	74.9	73.54	72.45	71.76	122.35
2500	80.38	80.82	81.27	80.4	78.24	76.35	75.23	74.08	72.87	71.66	71.2	121.13
3200	78.57	79.06	79.74	78.93	76.86	75.24	74.22	72.99	71.47	70.34	69.91	119.62
4000	76.73	76.65	76.82	76.31	74.79	73.16	72.18	70.78	69.06	68.34	68.53	117.76
5000	75	74.68	74.35	73.48	72.2	70.95	69.93	68.65	67.18	66.26	66.14	116.19
6300	74.16	73.51	72.56	71.41	70	68.73	67.98	67	65.64	64.62	64.26	115.24
8000	73.58	72.84	71.34	69.77	68.56	67.67	67.08	65.96	64.34	63.13	62.79	114.79
10000	70.9	70.54	69.14	67.56	66.11	64.87	64.39	63.38	61.47	59.69	59.55	112.68
OASPL	91.58	92.04	92.56	92.12	91.18	90.74	90.51	90.31	90.15	90.14	90.4	133.29

NASA Lewis Allison AST Jet Noise Test 1996

rdg	437
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	819.27
m01	0.19952
pamb	14.4437
tamb	495.272
rhumid	60.96
windsf	0
nprc	1.388
nprb	1.439
ptc	20.0479
ptb	20.7845
wactc	2.784
wactb	13.487
ttc	1174.14
ttb	500.699
ptmix	20.6584
ttmix	615.926
mixpnd	0.673315
grsvixp	13330.3
badchan	(26)
bkgnd	430
escdate	04.Dec.96
esctime	20:57:15
DADSdate	97.08.18
DADStime	20:57:15
btchdate	04.Dec.96
btchtime	20:57:15

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:31:44 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73
yaw angle	55	60	65	70	75	80	85
roll angle (	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85
80	46.35	49.45	49.45	49.52	49.78	50.02	52.11
100	46.56	47.11	49.38	49.59	49.71	49.04	50.43
130	47.83	48.08	48.34	50.69	50.83	50.51	51.53
160	48.31	50.29	50.67	50.88	52.59	52.69	53.18
200	51.1	50.08	51.34	51.46	52.85	52.94	54.17
250	50.95	52.04	53.3	54.39	54.49	54.61	54.73
320	50.11	51.2	51.79	52.35	53.17	54.19	54.75
400	50.21	52.22	53.11	52.91	54.13	55.19	55.34
500	49.7	52.5	53.32	53.79	54.59	55.46	55.62
630	50.16	52.65	53.5	53.87	54.64	55.34	56.1
800	51.07	53.88	54.02	54.77	55.62	56.25	56.5
1000	51.46	54.21	54.47	55.4	56.12	56.54	56.55
1300	51.76	54.15	54.87	55.23	55.62	55.83	55.4
1600	51.12	53.45	54.35	54.66	54.5	54.26	54.13
2000	48.35	50.38	51.55	51.93	51.99	52.04	52.32
2500	44.42	46.23	47.37	48.2	48.62	49.19	49.99
3200	39.65	41.67	42.91	43.71	44.36	45.32	46.14
4000	33.89	36.67	38.07	39.17	39.45	40.64	41.89
5000	25.2	28.65	30.84	32.1	32.81	34.25	35.74
6300	0	13.12	19.62	22.1	23.2	25.07	27.36
8000	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0
OASPL	61.85	63.79	64.53	65.07	65.68	66.09	66.46
PNL	71.38	73.55	74.49	74.99	75.3	75.52	75.86

distance: (	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16
yaw angle	90	95	100	105	110	115	120	125
roll angle (	0	0	0	0	0	0	0	0
frequency	90	95	100	105	110	115	120	125
80	51.41	49.48	52.79	52.29	52	51.86	51.71	51.43
100	51.83	51.11	50.57	50.63	53.13	53.36	53.26	53.04
130	50.62	50.93	52.18	51.99	51.92	52.33	53.44	52.95
160	51.65	52.02	53.95	53.86	54.01	54.76	54.23	54.01
200	52.77	52.38	53.66	53.8	54.96	55.11	55.36	55.84
250	54.8	56.56	56.29	57.12	56.19	56.76	56.06	56.29
320	55	55.41	55.64	55.23	56.39	56.39	56.53	56.6
400	55.57	56.07	56.49	57.06	57.08	56.41	56.8	56.74
500	55.79	56.32	56.42	56.77	56.52	56.93	57.12	56.95
630	55.88	56.2	56.88	56.73	56.89	56.73	56.84	56.65
800	56.52	56.75	56.78	56.87	56.84	56.79	56.96	57.03
1000	56.57	56.69	56.88	56.81	57.03	57.14	57.29	57.19
1300	56.55	56.54	56.4	56.48	56.58	56.82	56.66	56.9
1600	55.35	55.26	54.96	55.58	56.11	56.32	56.45	56.6
2000	54.21	54.23	54.04	54.38	55.06	55.42	55.4	55.13
2500	52.57	52.31	52.04	52.34	52.98	53.07	52.76	52.45
3200	50.12	49.85	49.55	49.8	50.02	49.8	49.14	48.64
4000	46.27	46.21	46.02	45.96	46.21	45.48	44.19	42.9
5000	42	41.59	41.17	41.12	40.73	40.01	38.6	36.63
6300	36.29	35.98	35.33	34.78	34.51	33.78	31.56	28.64
8000	28.06	27.5	26.31	25.49	24.75	22.97	19.51	5.67
10000	0	0	0	0	0	0	0	0
OASPL	66.61	67.03	67.31	67.48	67.89	68.03	68.03	68
PNL	76.19	76.15	76.13	76.34	76.83	76.96	76.8	76.51

distance: (	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	
frequency	130	135	140	145	150	155	160	165	PWL
80	53.89	53.3	52.98	52.81	52.71	52.24	51.27	49.68	117.06
100	52.47	53.61	53.51	53.38	52.96	52.22	51.09	49.43	117.14
130	52.66	52.87	53.07	53.06	54.2	53.18	51.59	49.54	117.38
160	53.78	54.49	54.14	53.33	51.74	50.09	49.63	46.85	117.81
200	55.6	55.29	56.14	55.11	53.76	52.17	50.53	47.18	118.93
250	58.1	57.9	56.48	54.58	53.29	51.13	47.88	43.93	120.61
320	55.59	54.94	54.18	53.29	51	48.28	45.49	41.37	118.9
400	56.38	55.16	54.21	52.45	50.51	47.54	43.48	38.84	119.34
500	56.08	54.71	52.59	50.48	48.1	45.36	41.71	36.56	119.17
630	55.45	53.31	51.45	49.12	46.64	43.73	39.85	34.51	118.97
800	55.56	53	50.49	47.96	45.07	41.6	37.53	31.95	119.22
1000	55.28	52.31	49.78	47	43.94	40.36	35.74	29.47	119.32
1300	55.41	51.91	48.73	45.99	42.87	39.04	34.24	27.84	118.96
1600	54.79	51.28	47.9	44.83	41.42	37.12	31.87	25.01	118.17
2000	52.97	49.5	46.21	43.11	39.46	34.82	29.28	21.79	118.59
2500	50.45	47	43.55	40.32	36.35	31.27	25.17	12.5	114.06
3200	46.6	43.05	39.52	36.03	31.59	25.65	16.62	0	110.75
4000	40.85	37.73	34.06	30.06	24.84	13.96	0	0	106.4
5000	33.72	30.06	25.9	20.3	-1.97	0	0	0	100.98
6300	24.75	18.79	-2.71	0	0	0	0	0	94.43
8000	0	0	0	0	0	0	0	0	84.73
10000	0	0	0	0	0	0	0	0	65.35
OASPL	67.1	65.65	64.78	63.5	62.31	60.66	58.86	56.32	130.56
PNL	74.88	72.28	69.77	67.66	65.21	62.05	58.48	53.48	76.69

NASA Lewis Allison AST Jet Noise Test 1996

rdg 438
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 938.39
m01 0.1992
pamb 14.4427
tamb 495.377
rhumid 80.72
winds1 0
nprc 1.542
nprb 1.618
ptc 22.2706
ptb 23.3683
wactc 3.031
wactb 16.003
ttc 1312.17
ttb 501.594
ptmix 23.1935
ttmix 630.671
mixpnd 0.782145
gravisp 17861.3
badchan [26]
bkgnd 430
escdate 04.Dec.96
esctime 21:02:45
DADSdate 97.08.18
DADStime 21:02:45
blchdate 04.Dec.96
blchtime 21:02:45
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 09:34:14 1997

Data ambw 14.30 psia
Data ambt 536.0 R
Data ambr 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.15	71.82	72.8	73.83	74.73	75.35	75.67	75.69	75.52	75.47	75.81	76.61	77.62	78.53	79.15	79.68	80.43	81.67	83.45	85.18	86.6	88.03	89.99	122.51
100	74.22	74.81	75.35	75.85	76.29	76.68	77.03	77.32	77.56	77.76	77.93	78.11	78.47	79.09	80	81.14	82.44	83.79	85.11	86.36	87.56	88.86	90.59	123.85
130	74.33	74.54	74.55	74.54	74.65	74.92	75.31	75.73	76.1	76.23	76.03	76.27	78.18	79.02	79.84	81.2	82.71	84.09	85.14	85.98	86.74	87.74	89.43	123.22
160	75.38	76.47	76.69	76.36	76.06	76.17	76.65	77.39	78.28	79.23	80.19	80.87	80.62	80.5	81.37	82.64	83.71	84.65	85.58	86.58	87.47	87.99	87.93	124.37
200	75.39	76.95	77.79	78.09	78.24	78.38	78.61	78.93	79.31	79.68	79.89	80.19	81.09	81.93	82.71	83.47	84.36	85.3	85.7	85.68	85.71	86.05	86.38	124.54
250	77.06	77.47	77.86	77.96	77.97	78.23	78.88	79.49	79.8	80.14	80.77	81.72	82.56	83.18	83.87	84.19	84.6	85.59	86.21	86.73	87.11	86.85	85.46	125.25
320	78.45	79.01	79.32	79.53	79.79	79.86	79.65	79.74	79.83	80.31	80.86	81.38	82.15	82.87	84	84.82	85.13	85.38	85.5	85.5	85.35	84.96	83.5	125.18
400	77.74	78.48	78.99	79	78.95	79.34	80.6	81.72	81.56	81.43	82.26	83.05	83.73	84.41	85.07	85.11	85.12	85.31	84.87	83.99	83.25	82.67	81.56	125.48
500	79.03	79.84	79.96	80.13	80.33	80.55	80.95	81.82	82.14	82.33	82.96	83.27	83.63	84.14	84.56	84.42	84.29	84.77	84.94	84.23	82.9	81.57	80.23	125.56
630	78.83	79.91	80.32	80.65	80.93	81.09	81.4	82.09	82.61	82.73	82.9	83.52	84.15	84.97	85.39	84.98	84.19	83.64	83.25	82.37	80.91	79.5	78.55	125.65
800	80.96	82.19	81.98	81.87	82.11	82.12	82.69	83.25	83.34	83.51	83.88	84.13	85.11	85.68	85.87	84.89	83.77	83.49	83.03	82.05	80.73	79.4	78.34	126.35
1000	83.07	83.65	82.84	83.43	83.24	83.1	83.17	83.65	84	84.51	85.2	85.74	86.23	86.52	86.39	85.38	83.86	82.75	82.2	81.59	80.54	79.21	77.93	127.13
1300	85.23	84.99	84.04	84.4	83.98	83.32	83.34	83.83	84.46	85.11	85.46	86.16	86.71	87.42	87.46	85.93	84.01	82.88	81.91	80.84	79.75	78.76	78.02	127.72
1600	87.73	85.24	84.74	84.67	84.49	84.51	84.68	84.79	84.76	85.07	85.6	86.56	87.39	88.06	87.93	86.34	84.19	82.73	81.59	80.57	79.57	78.68	78.08	128.27
2000	85.14	84.05	83.86	84.41	84.74	84.71	84.83	85.01	85.14	85.52	86.28	87.25	88.13	88.82	88.65	85.7	84.18	82.64	81.58	80.45	79.28	78.47	78.08	128.48
2500	82.6	82.44	82.94	83.78	84.23	84.06	84.38	84.77	84.92	85.11	85.98	87.19	88.24	89.08	88.78	86.67	84.03	82.4	81.38	80.34	79.14	78.08	77.49	128.23
3200	80.34	80.6	81.21	82.07	82.7	83.12	83.9	84.2	84.31	84.74	85.35	86.23	87.15	88.05	87.68	85.61	83.24	81.65	80.37	79.14	77.95	77.14	76.88	127.25
4000	78.62	79.13	79.56	80.14	80.62	81.36	82.32	82.59	82.8	83.2	83.82	84.6	85.25	85.36	85.05	83.76	81.91	80.3	78.9	77.49	76.19	75.54	75.56	125.41
5000	76.72	77.45	77.96	78.32	78.54	79.38	80.62	80.78	80.86	81.24	82.29	82.97	83.15	82.94	82.61	81.38	79.59	78.14	76.92	75.55	74.25	73.67	73.79	123.4
6300	75.3	76.01	76.49	76.82	77.39	78.51	79.65	80.02	79.96	80.19	80.81	81.22	81.37	81.11	80.68	79.31	77.33	75.8	74.76	73.48	72.17	71.68	71.79	121.89
8000	73.87	74.62	75.11	75.77	76.57	77.77	79.14	79.14	79.05	79.32	79.87	80.19	79.71	79.2	78.47	77.1	75.49	74.18	73.09	71.71	70.39	69.87	70.06	120.66
10000	71.47	71.15	71.65	73.24	75.07	76.11	76.43	76.49	76.37	76.39	77.22	78.43	75.89	75.85	75.29	74.34	72.75	71	69.66	68.24	66.79	66.03	66.23	117.77
OASPL	94.03	93.76	93.69	94.06	94.23	94.36	94.8	95.19	95.39	95.72	96.32	97.04	97.72	98.3	98.35	97.45	96.56	96.43	96.48	96.51	96.59	96.84	97.39	139

NASA Lewis Allison AST Jet Noise Test 1996

rdg 438
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 938.39
m01 0.1992
pamb 14.4427
tamb 495.377
rhumid 80.72
winds1 0
nprc 1.542
nprb 1.618
ptc 22.2706
ptb 23.3683
wactc 3.031
wactb 16.003
ttc 1312.17
ttb 501.594
ptmix 23.1935
ttmix 630.871
mixpnd 0.762145
grevtxp 17861.3
badchan (26)
bkgnd 430
escdate 04 Dec.96
esctime 21:02:45
DADSdate 97.08.18
DADStime 21:02:45
btchdate 04 Dec.96
btchtime 21:02:45
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 08:34:23 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	49.72	53.47	53.8	54.01	54.25	54.46	57.34	55.64	53.85	58.52	55.99	55.87
100	51.73	51.71	54	54.31	54.55	53.99	55.47	57.25	58.66	56.03	55.52	57.19
130	53.19	53.47	53.35	55.05	54.84	54.71	56.56	55.82	55.75	57.12	56.89	56.93
160	52.42	55.72	56.53	56.53	57.74	57.6	58.48	57.21	57.68	59.27	59.72	60.08
200	53.96	54.88	56.62	56.55	57.28	57.27	58.85	58.65	58.5	59.03	58.71	59.41
250	55.83	56.78	58.14	58.99	59.12	59.57	59.38	59.05	60.13	60.07	61.08	61.32
320	55.44	55.8	58.19	56.59	57.41	57.99	59.24	59.13	59.03	59.6	59.53	60.3
400	54.98	56.75	57.98	58.38	58.78	59.3	59.75	60.81	60.69	60.65	61.31	61.53
500	54.84	56.36	57.37	58.34	58.9	59.25	59.72	60.57	60.91	61.08	61.33	61.4
630	55.39	57.16	57.85	58.25	59.14	59.55	60.33	60.44	60.91	60.99	61.09	61.55
800	57.11	58.91	59.02	59.56	60.08	60.42	60.66	61.14	61.29	61.12	61.44	61.63
1000	58.53	59.45	59	60.44	60.27	59.85	60.18	61.09	61.41	61.86	62.13	62.48
1300	61.09	59.76	59.72	60.18	60.11	60.3	60.88	60.79	61.34	61.83	62.14	62.44
1600	58.91	58.51	58.63	59.35	60.07	60.34	60.48	61.18	61.19	61.43	61.94	62.39
2000	56.1	55.88	56.67	57.94	58.72	58.78	59.08	60.69	60.79	60.95	61.53	62.28
2500	51.29	52.33	53.82	54.88	55.77	56.29	57.22	59.49	59.58	59.58	60.03	60.83
3200	46.55	48.13	49.38	50.58	51.58	52.5	53.46	57.5	57.48	57.65	57.86	58.17
4000	40.38	42.4	43.76	44.92	45.68	46.82	48.3	53.69	53.73	53.87	54.01	54.33
5000	32.02	34.44	36.26	37.43	38.73	40.45	41.79	48.46	48.41	48.44	48.88	48.73
6300	18.38	22.63	25.41	27.49	29.23	31.21	33.11	42.26	42.17	42	41.93	41.84
8000	0	0	0	0	0	8.02	14.51	33.38	33.13	32.93	32.85	31.97
10000	0	0	0	0	0	0	0	13.59	13.47	9.8	8.63	0
OASPL	68.09	68.78	69.31	70.01	70.47	70.88	71.35	71.94	72.1	72.42	72.72	73.14
PNL	78.48	78.8	79.33	80.32	80.98	81.23	81.82	82.37	82.47	82.64	82.99	83.53

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.7	57.79	58.27	59.97	59.36	59.08	59.02	59.07	58.86	58.3	57.41	122.89
100	57.06	56.9	56.85	56.97	59.7	60.09	60.14	59.85	59.28	58.55	57.89	123.1
130	57.61	58.88	59.03	59.79	60.28	60.52	60.17	60.9	58.91	58.3	56	123.82
160	60.76	59.95	59.9	58.99	61.12	61.14	60.68	59.34	57.71	56.81	54.1	124.14
200	59.65	60.27	61.28	60.74	60.06	61.05	60.49	59.61	58.41	57.07	53.29	124.16
250	62.06	62.15	62.9	62.89	62.78	61.95	60.8	59.62	57.54	54.59	50.38	125.33
320	60.82	60.79	61.38	61.23	61.19	60.17	59.21	57.08	54.67	52.13	47.88	123.82
400	61.55	62.03	62.09	61.39	60.11	59.63	58.13	56.34	53.53	49.73	45.09	124.3
500	61.82	61.92	61.63	60.5	59.58	58.54	57.07	54.37	50.85	48.61	42.03	123.9
630	61.96	62.06	61.61	60.24	58.31	56.95	55.17	52.62	49.23	44.92	39.73	123.73
800	62.15	62.27	61.99	60.09	57.58	55.71	53.94	51.39	47.77	43.32	37.43	124.02
1000	62.61	62.65	61.82	59.88	57.32	54.95	52.38	49.47	46.07	41.67	35.71	124.19
1300	62.63	62.75	62.23	59.9	56.68	53.87	51.37	48.38	44.68	39.94	33.58	124.28
1600	62.83	62.94	62.01	59.25	55.81	53.01	50.13	46.76	42.64	37.81	31.38	123.97
2000	62.66	62.78	61.91	58.8	54.91	51.97	49.08	45.58	41.17	35.68	28.2	123.29
2500	61.26	61.35	59.98	56.79	52.97	49.62	46.35	42.55	37.81	31.86	23.63	121.5
3200	58.37	58.22	56.84	53.74	50	46.45	42.68	38.16	32.6	25.84	9.43	118.66
4000	53.93	52.79	51.24	48.55	44.98	41.22	36.98	31.74	25.33	12.51	0	114.15
5000	48.02	46.7	44.94	41.84	37.62	33.23	28.85	21.75	0	0	0	108.35
6300	40.84	39.08	36.65	32.94	28.15	22.37	10.05	0	0	0	0	101.24
8000	29.85	27.29	23.88	17.48	0	0	0	0	0	0	0	91.25
10000	0	0	0	0	0	0	0	0	0	0	0	69.97
OASPL	73.49	73.63	73.38	72.28	71.33	70.68	69.77	68.75	67.27	65.73	63.57	136
PNL	83.83	83.63	82.94	80.65	77.99	75.85	73.9	71.75	68.88	65.79	61.05	83.17

NASA Lewis Allison AST Jet Noise Test 1996

rdg 439
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nalrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 991.86
m01 0.19949
pamb 14.4432
tamb 495.482
rhumid 80.65
winds1 0
nprc 1.736
nprb 1.822
ptc 25.0734
ptb 26.3155
wactc 3.401
wactb 16.292
ttc 1400.6
ttb 502.728
ptmix 26.1206
ttmix 643.495
mixpnd 0.797505
grsvisp 21516.4
badchan (26)
bkgnd 430
escdate 04.Dec.96
esctime 21:07:20
DADSdate 97.08.18
DADStime 21:07:20
bichdate 04.Dec.96
bichtime 21:07:20
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 09:36:51 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.8	77.15	77.81	78.49	78.94	79.06	79.06	79.06	79.3	79.84	80.81	81.9	82.2	82.28	82.85	83.97	85.44	87.09	88.81	90.51	92.17	93.95	96.24	127.67
100	78.3	78.79	79.11	79.41	79.81	80.29	80.4	79.81	79.57	80.34	81.36	81.97	82.41	83.06	84.13	85.61	87.39	89.35	91.37	93.25	94.85	96.23	97.61	129.61
130	78.41	79.07	79.33	79.35	79.26	79.15	79.11	79.19	79.45	79.94	80.66	81.47	82.11	83.4	84.75	86.16	87.76	89.46	91.09	92.54	93.78	94.92	96.23	129.01
160	80.63	81.22	81.22	81.1	81.11	81.33	81.69	82.09	82.49	82.93	83.5	84.22	85.13	86.18	87.32	87.97	88.56	89.78	91.39	92.83	93.77	94.27	94.51	129.78
200	81.11	81.86	81.85	81.59	81.47	81.67	82.03	82.36	82.53	83	84.26	85.12	84.82	86.13	87.7	88.96	90.05	90.81	91.43	91.86	92.12	92.24	92.22	129.83
250	80.11	80.62	81.22	81.83	82.32	82.62	82.72	82.64	82.91	83.95	85.31	86.36	86.65	87.27	88.63	89.69	90.21	90.83	91.55	92.17	92.51	92.43	91.77	130.1
320	81.95	81.68	81.84	82.51	83.14	83.57	83.62	83.58	83.75	84.27	84.89	85.35	86.49	87.06	87.75	88.59	89.5	90.42	90.86	90.85	90.52	89.76	88.34	129.45
400	81.96	82.51	82.65	82.71	83.06	83.52	84.03	84.97	85.29	85.75	86.17	87.01	87.77	88.38	88.92	89.5	90.02	90.13	89.82	89.5	89.13	88.31	86.85	129.81
500	82.46	83.59	83.88	83.86	83.97	84.17	84.21	84.65	84.98	85.39	86.19	86.9	87.49	88.17	89.13	89.55	89.57	89.88	90.24	89.99	88.92	87.5	86.15	129.85
630	83.3	83.96	84.14	84.14	84.15	84.48	85.25	86.3	85.62	86.39	86.89	87.99	88.06	88.92	89.44	89.26	88.91	88.96	89.4	88.97	87.4	85.79	84.41	129.9
800	84.61	85.51	85.17	84.96	85.1	85.41	85.89	86.54	86.73	86.77	87.39	88.51	89.55	89.93	89.75	89.12	88.53	88.13	87.81	87.48	86.77	85.35	83.62	130.29
1000	86.65	86.97	85.79	86.12	86.2	86.3	86.64	87.24	88.03	88.72	89.54	90.48	91.36	91.54	90.48	89.37	88.56	87.68	87.03	86.47	85.78	84.73	83.41	131.32
1300	87.84	87.99	87.84	87.52	87.46	87.39	87.44	87.91	88.29	88.85	90.02	90.87	91.89	93.03	91.63	89.26	88.05	87.89	86.87	85.9	84.97	84	82.88	131.98
1600	89.84	89.52	89.21	88.75	88.42	88.29	88.36	88.83	89.27	89.79	90.89	92.03	93.51	94.21	92.61	90.07	88.24	87.17	86.38	85.68	84.9	84.02	83.15	133
2000	89.83	90.28	90.1	89.76	89.48	89.35	89.46	89.56	90.03	90.76	91.86	93.43	94.67	95.53	94.26	91.39	88.9	87.88	86.75	85.8	84.83	84.06	83.5	134.06
2500	89.48	89.83	90.09	90.1	89.79	89.5	90.02	90.37	90.45	91.2	92.67	94.25	95.53	96.26	94.92	92.16	89.52	87.66	86.59	85.57	84.39	83.5	82.99	134.62
3200	89.33	89.43	89.7	89.88	89.49	89.14	89.89	90.32	90.78	91.55	92.58	94.08	95.45	96.05	94.93	92.44	89.84	87.83	86.39	85.09	83.88	83.13	82.88	134.54
4000	88.59	89.57	89.49	89.22	88.79	88.86	89.56	89.77	90.33	90.97	92.11	93.64	94.69	94.69	93	90.78	88.78	87	86.81	84.23	82.82	81.88	81.63	133.72
5000	87.25	88.86	88.97	88.24	87.56	88.02	88.86	89.08	89.31	90.07	91.58	92.95	93.33	93.02	91.55	89.26	87.02	85.31	84.05	82.78	81.46	80.63	80.37	132.64
6300	86.32	87.62	87.98	87.51	86.86	87.11	88.26	88.65	88.91	89.52	90.42	91.79	92.44	92.03	90.46	87.98	85.59	84.04	83.13	81.96	80.5	79.48	79.13	131.73
8000	85.02	86.78	87.03	86.86	86.14	86.49	87.85	88.06	88.33	88.93	89.93	91.13	91.66	91.17	89.29	86.76	84.69	83.46	82.56	81.23	79.7	78.79	78.49	130.98
10000	82.76	83.48	83.56	83.81	84.28	84.78	85.06	85.36	85.57	85.98	87.05	87.44	88.19	88.4	86.93	84.55	82.36	80.84	80.11	78.89	77.04	75.61	74.92	128.12
OASPL	99.27	99.86	99.84	99.68	99.48	99.52	100.03	100.36	100.71	101.33	102.39	103.64	104.6	105.05	104.12	102.67	101.85	101.78	102.1	102.47	102.8	103.17	103.79	144.89

NASA Lewis Allison AST Jet Noise Test 1996

rdg	439
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	991.86
m01	0.19949
pamb	14.4432
tamb	495.482
rhumid	80.65
winds1	0
nprc	1.736
nprb	1.822
ptc	25.0734
ptb	26.3155
wactc	3.401
wactb	16.292
ttc	1400.6
ttb	502.728
ptmix	26.1208
ttmix	643.495
mixpnd	0.797505
grsvixp	21516.4
badchan	(26)
bkgnd	430
escdate	04.Dec.96
esctime	21:07:20
DADSdate	97.08.18
DADStime	21:07:20
btchdate	04.Dec.96
btchtime	21:07:20

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:37:00 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1506.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.64	57.98	57.96	57.82	57.8	57.8	60.7	59.04	57.43	60.99	60.94	60.94
100	55.2	55.78	58.53	58.84	58.94	58.1	59.29	59.74	58.42	58.27	58.98	61.39
130	58.45	59.43	59.16	60.49	60.26	60.12	61.58	59.06	59.09	61.08	61.27	61.47
160	58.06	60.38	60.57	60.4	61.29	61.08	61.95	61.91	61.78	63.18	63.56	63.79
200	58.16	58.5	59.87	60.36	61.57	61.7	62.5	62.09	61.73	62.48	63.29	64.59
250	58.97	59.72	60.95	62.03	62.57	63.34	63.41	62.22	63.27	63.77	65.35	65.65
320	59.15	59.57	60.29	60.8	61.65	62.4	62.77	62.98	63	63.65	63.24	63.94
400	58.99	60.29	61.28	61.73	62.16	62.67	62.9	64.06	64.41	64.72	65.18	65.56
500	58.88	60.5	61.04	61.65	61.97	62.45	63.36	63.39	63.7	63.99	64.38	65.17
630	59.51	61.1	61.63	61.64	62.21	62.86	63.73	63.64	63.96	65	65.21	65.99
800	60.8	62.33	62.09	62.68	63.15	63.51	64.02	64.43	64.72	64.5	65.15	66.32
1000	61.44	62.38	62.46	63.05	63.43	63.8	64.18	64.68	65.33	65.99	66.45	66.77
1300	61.99	63.21	63.77	64.03	64.14	64.33	64.64	64.85	65.23	65.8	66.59	67.29
1600	62.99	63.78	64.07	64.27	64.43	64.87	65.07	65.21	65.72	66.12	67.09	68.11
2000	61.57	62.7	63.39	63.92	64.08	64.08	64.64	65.25	65.72	66.35	67.52	68.72
2500	59.19	60.34	61.45	62.21	62.19	62.15	63.11	65.08	65.11	65.77	66.94	68.14
3200	55.93	57.56	58.49	59.14	59.34	59.58	60.54	63.59	63.98	64.56	65.3	66.41
4000	50.88	53.48	54.61	54.68	54.83	55.49	56.44	60.83	61.26	61.65	62.45	63.34
5000	42.78	45.91	47.38	47.94	48.05	48.89	50.34	56.72	56.83	57.38	58.29	58.87
6300	31.59	35.53	37.64	38.61	39	39.84	41.82	50.89	51.11	51.35	51.81	52.5
8000	0	16.6	20.63	22.61	23.91	25.75	27.17	42.22	42.32	42.6	42.85	42.87
10000	0	0	0	0	0	0	0	27.58	27.35	27.01	27.06	25.51
OASPL	71.95	73.16	73.73	74.19	74.54	74.82	75.48	75.93	76.2	76.81	77.53	78.37
PNL	83.36	84.65	85.36	85.87	86.12	86.31	87	87.5	87.68	88.3	89.2	90.19

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.86	60.9	61.15	64.07	64.19	64.51	64.85	65.17	65.12	64.8	63.64	128.11
100	61.49	61.5	61.89	62.09	65.08	65.76	66.4	66.8	66.78	66.26	65.2	129.15
130	61.8	63.83	63.95	64.13	64.36	64.83	65.19	66.92	66.38	65.08	63.02	129.01
160	64.74	65.1	65.59	65.48	66.51	66.59	66.32	65.26	63.75	62.89	59.97	129.23
200	63.38	64.48	66.2	66.15	65.78	66.84	66.55	65.66	64.1	62.45	59.27	129.24
250	66.22	66.27	66.98	67.04	67.12	66.41	65.38	64.82	62.75	59.8	55.82	129.53
320	64.94	64.99	65.43	65.27	65.61	65.09	64.3	62.43	60.34	57.81	52.96	128.18
400	65.46	66.11	66.23	66.15	65.21	64.75	63.82	62.49	59.59	55.59	50.93	128.63
500	65.32	65.61	66.03	65.58	64.59	63.15	62.25	60.37	57.03	53.04	48.12	127.92
630	65.9	66.15	65.79	64.35	62.68	61.81	60.43	58.21	55.12	50.76	44.96	127.75
800	67.07	67.06	65.51	64.05	62.89	61.02	58.83	58.4	53.35	49.09	43	128.01
1000	67.46	67.53	66.05	63.6	61.3	59.53	57.25	54.51	51.17	46.7	40.45	128.26
1300	68.1	68.59	66.45	63.28	60.89	58.71	58.14	53.16	49.72	45.09	38.64	128.63
1600	69.12	69.41	67.22	63.54	60.1	57.68	55.28	52.39	48.49	43.59	36.76	129.16
2000	69.48	69.73	67.64	63.77	60.07	57.04	54.1	50.61	46.32	40.98	33.58	129.24
2500	68.94	68.95	66.85	63.25	59.3	55.52	52.18	48.38	43.59	37.66	29.39	128.35
3200	67.07	66.86	64.32	60.53	56.59	52.95	49.07	44.6	39	32.14	22.19	128.29
4000	63.58	62.39	59.5	55.94	52.2	48.09	43.8	38.74	32.39	23.97	0	122.7
5000	58.31	57.04	54.37	50.14	45.42	41.03	36.43	30.58	22.02	0	0	117.74
6300	52.03	50.15	46.88	41.97	36.93	32.07	26.39	16.26	0	0	0	111.16
8000	41.98	39.73	35.55	30.04	23.69	13.65	0	0	0	0	0	101.57
10000	23.78	20.96	11.06	0	0	0	0	0	0	0	0	85.2
OASPL	78.9	79.1	78.15	76.87	78.21	75.78	75.24	74.7	73.54	72.18	70.13	140.97
PNL	90.74	90.71	89.06	86.36	83.73	81.4	79.68	77.82	75.06	72.07	67.81	89.19

NASA Lewis Allison AST Jet Noise Test 1996

rdg	435
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	564.13
m01	0.29991
pamb	14.3909
tamb	495.061
rhumid	82.26
winds1	0
nprc	1.176
nprb	1.215
ptc	16.9237
ptb	17.4849
wactc	1.735
wactb	9.298
ttc	1104.22
ttb	498.294
ptmix	17.3967
ttmix	583.579
mixpnd	0.472276
grwixp	8224.05
badchan	(28)
bkgnd	431
escdate	04.Dec.96
esctime	20:34:22
DADSdate	04.Dec.96
DADStime	20:34:22
bkchdate	04.Dec.96
bkchtime	20:34:22

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 05:10:38 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	60.95	60.55	59.99	59.56	59.49	59.95
250	65.07	68.07	68.58	68.54	67.05	66.3	67.15	68.32	69.01	69.4	69.89	70.48
320	63.96	68.49	69.07	68.34	67.65	68.25	68.79	69.66	70.73	71	70.59	70.26
400	63.25	66.52	67.32	67.02	67.54	68.56	69.02	69.02	69.95	70.9	70.8	70.79
500	63.28	67.67	67.66	66.98	67.52	68.1	68.92	69.84	70.6	71.12	71.51	71.56
630	66.19	68.09	67.83	67.73	66.52	69.01	69.78	70.27	70.58	70.73	70.97	71.06
800	66.29	67.56	67.18	66.94	67.41	68.27	69.17	69.74	70.55	70.78	71.02	71.43
1000	65.81	66.53	66.22	66.26	66.94	67.62	68.54	69.05	69.61	69.92	70	69.9
1300	64.12	65.22	65.18	65.26	66.01	67.24	68.18	68.42	68.43	68.3	68.13	68.15
1600	62.93	64.07	64.29	64.44	65.23	66.18	67.15	67.52	67.93	68.12	68.16	68.13
2000	59.96	62.29	62.4	62.6	63.62	64.65	65.69	66.13	66.21	66.38	66.52	66.62
2500	59.09	60.65	60.6	61.15	61.96	62.86	63.86	64.17	64.43	64.85	64.9	64.8
3200	59.93	60.23	60.34	60.99	61.97	62.9	63.59	63.8	63.95	64.05	64.13	64.3
4000	58.48	60.17	60.59	61.04	61.8	63.19	64.29	63.9	63.96	64.11	64.12	64.02
5000	58.89	60.17	60.87	61.25	61.75	63.26	64.72	64.75	64.71	64.91	65.04	64.57
6300	60	61.08	61.7	62.09	62.67	64.17	65.67	66.11	66.23	66.29	65.95	65.4
8000	93.82	62.46	63.01	63.44	63.95	65.16	66.91	67.37	67.44	67.56	67.37	66.75
10000	87.51	61.75	62.02	62.79	63.66	64.63	65.71	66.4	66.44	66.34	66.27	64.86
OASPL	94.78	77.55	77.74	77.64	77.97	78.72	79.68	80.17	80.65	80.94	81	80.99

distance: (i	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	42.93
200	61.03	62.63	63.29	62.63	61.7	61.28	61.37	61.62	61.83	62.09	62.82	102.72
250	71.05	71.82	72.28	72.03	71.52	71.8	71.93	71.78	70.93	69.51	63.68	112.84
320	70.84	71.8	72.64	72.74	71.93	71.5	71.32	70.25	64.5	63.07	56.14	113.11
400	70.99	71.24	71.36	71.42	71.49	70.97	70.02	69.28	65.48	63.79	0	112.58
500	71.58	71.88	72.07	72.28	72.64	72.54	71.77	70.67	69.08	67.44	64.06	113.33
630	71.11	71.1	71.05	70.98	70.77	70.38	69.67	68.66	66.85	65.35	64.24	112.8
800	71.89	71.65	71.42	71.1	70.54	69.53	68.28	67.11	66.1	65.27	64.54	112.63
1000	69.82	69.77	69.84	69.86	69.56	68.72	67.62	66.55	65.42	64.29	64.04	111.54
1300	68.54	68.77	69.01	69.07	68.62	67.63	66.42	65.3	64.22	63.25	63.16	110.44
1600	68.31	68.26	68.43	68.61	68.2	67.14	65.87	64.74	63.6	62.66	62.69	109.91
2000	66.57	66.71	67.01	66.98	66	65.16	64.39	63.42	62.23	61.12	60.68	108.26
2500	64.73	64.87	65.17	65.01	63.92	62.92	62.18	61.47	60.6	59.85	59.46	106.46
3200	64.15	63.97	64.09	64.09	63.2	61.97	60.78	59.8	58.76	57.95	57.6	105.84
4000	63.69	62.99	62.71	62.59	61.84	60.53	59.56	58.55	57.44	56.82	56.85	105.49
5000	64.03	63.29	62.9	62.66	61.77	60.53	59.32	58.32	57.37	56.56	56.56	105.91
6300	65.04	64.16	63.72	63.84	62.64	61.26	59.97	58.96	58.06	57.3	57.34	106.94
8000	66.28	65.09	64.32	64.08	63.19	62.03	60.97	60.17	59.43	58.79	58.68	120.65
10000	64.57	63.46	63.19	63.82	63.07	61.39	59.87	59.15	58.62	57.77	57.32	114.88
OASPL	81.13	81.29	81.47	81.44	81.05	80.49	79.85	78.99	77.21	75.98	73.9	125.16

NASA Lewis Allison AST Jet Noise Test 1996

rdg	435
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amhrc	35.02
amixb	78.39
scale	4
vld	564.13
m01	0.29991
pamb	14.3909
tamb	495.061
rhumid	82.26
windel	0
nprc	1.176
nprb	1.215
ptc	16.9237
ptb	17.4849
wactc	1.735
wactb	9.298
ttc	1104.22
ttb	498.294
ptmix	17.3967
ttmix	593.579
mixpnd	0.472276
grsvbp	6224.05
badchan	{26}
bkgnd	431
secdate	04.Dec.96
sectime	20:34:22
DADSdate	04.Dec.96
DADStime	20:34:22
btchdate	04.Dec.96
btchtime	20:34:22

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 05:10:43 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (f	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	38.18	42.75	44.53	46.87	40.23	39.65	39.14	38.91	42.87
200	44.4	47.92	49.48	49.32	48.28	48.49	48.68	47.87	50.21	51.21	51.83	51.48
250	39.33	44.58	45.11	44.59	45.87	47.2	47.99	49.09	49.69	49	47.72	47.74
320	40.19	44.45	45.06	45.14	45.51	46.13	47.08	48.12	49.26	50.12	49.77	48.16
400	41.05	44.83	45.53	45.6	46.74	47.42	48.28	48.56	49.48	50.04	50.47	50.33
500	41.42	43.96	44.32	44.56	45.32	46.26	47.24	48.63	48.78	48.82	49.08	49.13
630	41.33	43.08	43	42.97	43.68	44.79	45.94	47.66	48.23	47.98	47.36	47.58
800	40.02	41.4	41.35	41.9	43.02	44.05	45.15	46.49	46.92	47.03	46.83	46.01
1000	37.77	38.43	40.12	40.67	41.58	42.74	43.58	45.39	45.3	44.94	44.34	43.97
1300	35.59	37.28	37.97	38.52	39.48	40.54	41.57	43.93	44.15	44.15	44.05	43.67
1600	31.24	34.14	34.88	35.55	36.6	37.56	38.55	41.85	41.81	41.26	41.03	40.65
2000	28.84	31.27	32.1	33.07	34.64	35.98	36.98	38.9	39.05	39.2	38.89	38.4
2500	26.75	28.26	29.46	30.87	32.1	33.72	35.02	37.1	37.13	37	36.68	36.24
3200	20.23	24.17	25.71	27.04	28.37	30.26	32.07	34.9	35.03	35.09	34.93	34.31
4000	0	8.96	16.5	19.72	22.36	26.37	27.27	32.3	32.32	32.4	32.12	31.14
5000	0	0	0	0	0	1.35	15.87	28.09	28.42	28.45	27.83	26.75
6300	23.59	0	0	0	0	0	0	18.02	18.46	18.18	16.16	11.01
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	50.39	53.56	54.35	54.47	55	55.9	56.84	57.47	58.23	58.47	58.4	58.22
PNL	56.6	59.19	60.31	60.87	61.62	62.8	63.84	64.49	64.65	64.9	64.85	64.61

distance: (f	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	65.35
160	43.69	47.23	47.75	48.39	46.79	47.35	36.16	35.17	33.85	32.15	30.26	108.18
200	51.64	51.77	51.65	50.75	49.38	47.44	48.57	45.15	43.54	40.13	32.89	113.91
250	47.87	48.37	48.53	48.18	47.42	45.94	45.99	43.34	34.74	31.17	0	111.33
320	49.23	48.85	48.28	48.03	48.06	47.32	44.12	41.94	36.51	32.63	0	111.57
400	50	49.43	48.81	47.69	46.12	44.45	45.17	42.75	39.43	35.36	28.09	111.91
500	48.87	48.11	47.14	46.27	44.87	43	42.82	40	36.27	32.2	27.79	110.67
630	47.26	46.88	46.3	45.28	43.91	41.6	40.48	37.65	34.43	30.82	25.85	109.42
800	45.75	45.25	44.53	43.61	42.11	39.94	39.07	36.17	32.69	28.35	23.57	108.12
1000	43.76	43.48	43.01	42.45	41.01	38.6	37.04	33.98	30.41	26.03	20.79	106.44
1300	43.1	42.27	41.63	40.45	38.36	35.88	35.65	32.37	28.51	23.74	18.04	105.07
1600	39.8	39.08	38.52	37.38	35.1	32.55	33.2	28.93	25.74	20.53	3.63	102.15
2000	37.86	36.95	36.19	35.09	32.68	29.79	29.78	26.54	22.43	14.38	0	99.84
2500	35.45	34.24	33.05	31.62	29.25	26.23	26.54	22.86	15.68	0	0	97.43
3200	33.09	31.48	30.13	28.55	26.02	22.18	22.75	14.07	0	0	0	94.88
4000	29.94	28.16	26.46	24.65	19.53	0	12.43	0	0	0	0	91.4
5000	25.27	22	17.4	8.49	0	0	0	0	0	0	0	86.35
6300	-2.04	0	0	0	0	0	0	0	0	0	0	76.7
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	58.12	58.06	57.73	57.12	55.93	54.62	52.99	50.72	47.2	43.59	37.04	120.52
PNL	64.22	63.7	63.03	62.08	60.93	59.16	56.85	53.7	49.18	43.83	33.74	62.83

NASA Lewis Allison AST Jet Noise Test 1996

rdg 434
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 809.65
m01 0.2998
pamb 14.3912
tamb 495.652
rhumid 81.05
winds1 0
nprc 1.389
nprb 1.444
ptc 19.9894
ptb 20.7809
wactc 2.726
wactb 13.505
ttc 1183.5
ttb 497.01
ptmix 20.648
ttmix 608.947
mixpnd 0.669212
grsvixp 13141.4
badchan (26)
bkgnd 431
escdate 04.Dec.96
esctime 20:25:56
DADSdate 97.08.25
DADStime 20:25:58
blchdate 04.Dec.96
blchtime 20:25:56
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 11:03:39 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	53.88	66.75	67.15	67.53	68.09	68.99	69.85	69.96	69.37	68.83	69.45	70.69	69.79	70.03	71.15	71.72	71.73	72.33	73.26	73.66	73.59	73.89	76.83	113.31
100	63.83	67.45	67.34	69.35	69.84	69.44	68.62	68.17	68.3	69.12	70.2	70.24	69.44	69.52	70.23	70.3	69.56	69.85	70.97	72.05	73.2	74.77	77.08	112.81
130	0	68.12	67.31	67.55	67.45	67.27	67.36	67.78	68.68	69.14	68.53	68.49	69.01	69.63	70.78	71.62	71.39	71.47	72.29	73.88	75.43	76.7	78.19	113.09
160	66.89	69.31	68.41	68.06	68.38	68.37	68.34	68.87	69.55	70.56	71.16	71.39	71.45	71.45	71.43	71.79	72.78	73.6	74.11	74.56	75.16	75.98	76.9	114.18
200	68.19	68.67	69.08	70.21	70.19	69.83	70.82	69.81	71.26	70.98	70.95	71.61	72.91	72.82	72.27	72.88	73.22	73.97	74.74	75.08	75.32	75.53	75.08	114.88
250	69.37	70.25	71.72	71.88	71.93	70.67	71.73	72.15	72.87	73.45	73.69	74.76	74.37	74.88	75.54	75.89	76.52	76.53	76.17	76.4	76.74	76.7	76.19	116.97
320	70.71	71.94	73.23	72.83	73.07	72.84	73.65	74.25	74.32	74.51	74.45	74.07	75.08	75.74	76.15	76.27	76.08	76.48	76.68	75.51	74.22	73.75	73.53	117.46
400	71.17	73.33	74.07	73.8	73.51	73.86	74.53	75.67	76.05	75.82	76.54	77.44	76.93	76.4	76.83	77.23	76.4	75.33	74.6	74.41	74.5	74.45	73.61	118.41
500	72.25	74.29	74.43	73.69	75.06	75.02	74.95	75.48	75.35	75.03	75.98	76.71	77.32	77.17	77.4	77.87	77.35	76.63	75.85	74.82	73.88	73.18	72.37	118.7
630	72.27	74.79	74.45	74.69	75.33	75.34	75.49	75.89	76.17	76	76.27	76.67	76.78	76.74	77.03	77.13	76.42	75.07	73.85	73.26	72.91	72.4	71.3	118.58
800	74.63	76.43	75.89	76.68	75.92	76.63	76.91	77.06	77.58	77.68	77.64	78.56	79.14	78.93	78.92	78.71	77.06	75.3	74.15	73.43	72.57	71.42	70.85	120.07
1000	76.49	78.19	77.92	77.86	76.31	77.83	78.23	78.5	78.53	78.56	79.05	79.39	79.26	79.25	79.35	78.99	77.54	75.82	74.49	73.72	72.81	71.5	71.27	121.02
1300	77.78	79.05	79.22	78.85	78.95	78.97	78.65	78.11	77.88	78.05	78.29	78.86	78.76	79.3	79.87	79.46	77.83	75.92	74.35	73.35	72.53	71.78	71.87	121.23
1600	78.52	79.41	79.83	79.4	78.98	79.2	78.3	77.71	77.51	77.94	78.34	78.95	79.4	80.12	80.5	79.92	78.34	76.4	74.9	74.26	73.67	72.7	72.27	121.52
2000	78.11	78.92	79.29	78.55	78.47	78.56	77.53	77.57	77.4	77.67	78.2	78.18	79.57	79.73	80.15	79.88	77.8	75.88	74.72	73.8	72.88	72.03	71.96	121.18
2500	76.01	76.51	77.44	76.86	77.21	77.12	76.83	76.97	77.04	76.99	77.39	78.27	78.52	78.74	79.19	78.95	77.1	75.29	74.08	73.1	72.03	70.92	70.97	120.1
3200	73.81	73.55	74.73	74.43	75.15	75.3	75.43	75.2	75.78	76.24	76.02	76.55	76.99	76.94	77.23	77.23	75.63	73.84	72.54	71.81	70.7	69.85	69.96	118.36
4000	72.13	72.47	73.13	73.11	73.09	73.8	74.16	73.63	74.38	74.75	74.74	75.11	74.99	74.37	74.61	74.91	73.42	71.72	70.56	69.81	68.76	67.45	67.94	116.59
5000	70.58	71.45	72.52	72.67	71.79	72.88	73.01	73.14	73.16	73.31	73.27	73.27	72.84	71.88	71.69	71.73	70.36	68.82	67.8	67.25	66.36	65.15	65.78	114.98
6300	69.51	70.86	72.01	72.1	71.48	72.8	72.62	72.83	73.23	73.41	72.82	72.08	71.6	70.49	69.92	69.63	68.19	66.76	65.88	65.28	64.35	63.21	64.18	114.28
8000	69.21	70.95	72.12	72.34	71.78	72.6	72.56	72.87	73.52	73.51	73.01	72.32	71.12	69.93	69.13	68.38	67	65.91	65.23	64.51	63.48	62.42	63.46	114.23
10000	68.29	69.41	69.86	70.93	71.18	71.95	69.95	70.95	71.82	71.25	71.38	69.04	67.88	67.08	66.6	66.35	65.48	63.67	62.08	61.69	60.91	59.27	59.76	112.34
OASPL	86.89	87.96	86.32	86.12	86.2	86.34	86.22	86.29	86.47	86.6	86.87	89.37	89.52	89.58	89.9	89.8	88.68	87.6	86.97	86.61	86.38	86.3	86.77	131.43

1

NASA Lewis Allison AST Jet Noise Test 1996

rdg	434
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	809.65
m01	0.2998
pamb	14.3912
tamb	495.652
rhumid	81.05
winds1	0
nprc	1.389
nprb	1.444
ptc	19.9894
ptb	20.7809
wactc	2.726
wactb	13.505
ttc	1163.5
ttb	497.01
ptmix	20.648
ttmix	608.947
mixpnd	0.669212
grsvisp	13141.4
badchan	(26)
bkgnd	431
escdate	04.Dec.96
esctime	20:25:56
DADSdate	97.08.25
DADStime	20:25:56
bchdate	04.Dec.96
bchtime	20:25:56

"Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date. Wed Aug 27 11:03:49 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data amb	70.00%
Data scale	1

distance: ('	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	45.99	45.42	50.68	49.32	48.34	46.73	49.91	49.58	48.17	48.31	48.12	49.61	47.95	46.46	45.46	44.71	46.48	48.54	47.36	44.83	42.46	45.59	112.56
80	37.75	46	45.92	44.77	46.67	46.32	47.72	48.1	46.93	47.01	49.4	48.62	47.82	48.9	49.37	49.57	46.81	47.72	46.44	45.85	45.1	44.43	43.96	112.25
100	40.69	47.32	46.88	47.48	46.87	47.99	46.88	47.67	48.3	49.22	47.96	50.21	49.57	48.86	49.35	48.57	48.52	49.69	47.44	47.69	47.67	46.99	45.9	113.34
130	45	47.03	47.22	46.31	48.93	49.71	50.23	48.69	48.62	50.21	49.71	49.58	49.43	50.31	49.49	50.37	49.53	49.01	49.13	48.29	47.13	45.73	43.84	113.87
160	46.07	47.19	48.03	49.63	50.32	49.82	51.8	49.53	51.26	50.52	50.85	51.67	51.18	52.03	51.98	52.85	52.42	52.52	49.60	48.65	47.14	45.27	43.29	115.37
200	47.99	49.72	51.96	52.69	53.18	52.89	53.46	51.72	52.96	53.97	54.72	54.91	55.19	55.17	55.09	54.21	53.31	52.23	50.98	49.78	48.84	46.49	42.86	117.62
250	47.78	49.45	50.71	50.11	51.25	51.93	53.3	53.65	53.27	52.98	52.75	53.58	53.26	53.27	53.66	53.87	52.27	50.32	51.29	48.63	45.89	43.28	40.19	116.5
320	48.01	51.06	52.5	52.04	52.5	53.55	53.52	54.75	55.4	54.85	54.91	55.07	55.01	54.49	54.23	54.06	53.11	51.52	48.73	47.07	45.49	43.05	39.2	117.49
400	48.5	51.08	52.13	52.18	53.84	53.27	53.79	54.21	54.17	54.04	55.03	55.29	56.35	54.48	54.04	53.38	51.85	49.12	49.32	46.89	44.11	40.96	38.54	117.18
500	48.08	51.63	51.36	52.73	52.95	54.14	54.56	54.24	54.9	54.96	55.29	55.65	55.36	54.8	54.16	53.34	51.1	48.66	46.72	44.63	42.29	39.04	34.39	117.24
630	50.02	52.77	52.95	54.02	54.9	54.79	55.63	54.96	55.21	55.47	55.3	56.07	56.21	55.75	56.31	54.28	51.88	48.67	46.29	43.94	40.91	37.06	32.25	118.02
800	51.34	53.5	53.96	54.27	54.97	55.21	55.4	55.94	55.85	55.64	55.81	55.76	55.14	54.94	54.89	53.38	50.84	47.81	45.95	43.31	40.08	35.62	30.89	117.97
1000	51.39	53.87	54.83	54.83	55.13	55.67	54.79	55.06	54.65	54.75	54.73	55.01	54.99	55.2	54.78	53.42	50.99	47.75	44.79	41.97	38.63	34.49	29.45	117.77
1300	51.58	53	54.21	53.91	53.9	54.17	53.25	54.11	53.81	54.14	54.33	56.09	54.64	54.42	54.2	52.88	49.78	46.42	44.55	41.87	36.64	33.86	27.87	117.01
1600	49.44	50.95	51.8	51.6	52.03	52.12	51.65	53.26	52.99	53.02	53.35	53.86	53.82	53.07	52.6	51.27	48.05	44.8	43.42	40.28	36.37	31.52	25.29	115.49
2000	45.55	46.46	48.12	47.8	48.54	48.93	48.76	51.72	51.7	51.4	51.34	51.36	51	50.37	49.74	48.43	45.35	41.77	41.66	38.17	33.88	28.28	21.35	112.9
2500	40.45	41.13	42.99	43.36	43.96	44.55	45.25	48.52	48.89	49.01	48.36	48.35	47.73	46.42	45.57	44.49	41.33	37.85	38.38	34.72	30.17	24.25	9.46	109.36
3200	34.42	36.31	38.05	38.83	39.01	40.29	40.66	44.71	45.24	45.31	44.84	44.31	43.49	41.4	39.82	38.44	35.33	31.38	33.97	30.04	24.76	12.9	0	105.03
4000	26.22	28.71	31.3	32.34	32.38	34.45	34.58	40.77	40.67	40.53	39.91	38.97	37.54	35.67	33.94	31.74	27.93	22.99	27.31	22.29	9.81	0	0	99.68
5000	0	13.27	20.07	22.42	23.18	25.42	26.17	34.91	35.37	35.38	34.34	33.05	31.32	28.63	26.05	22.58	13.56	0	13.2	0	0	0	0	93.36
6300	0	0	0	0	0	0	0	26.62	27.35	26.9	25.46	23.27	19.46	10.5	0	0	0	0	0	0	0	0	0	83.94
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.28	62.7	63.52	63.9	64.43	64.71	64.89	65.26	65.39	65.42	65.61	65.95	65.8	65.49	65.21	64.53	62.74	61.2	60	58.38	56.66	54.61	52.92	128.34
PNL	70.81	72.83	73.95	74.04	74.44	74.75	74.64	74.85	74.95	74.67	74.85	75.08	74.82	74.23	73.74	72.66	69.98	67.24	64.61	61.89	58.61	54.84	49.67	73.45

NASA Lewis Allison AST Jet Noise Test 1996

rdg 433
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 933.22
m01 0.29972
pamb 14.3909
tamb 495.458
rhumid 81.77
winds1 0
nprc 1.54
nprb 1.613
ptc 22.162
ptb 23.2125
wactc 3.024
wactb 15.85
ttc 1304.86
ttb 496.711
ptmix 23.0442
ttmix 626.193
mixpnd 0.760652
grsvisp 17813.6
badchan (25)
bkgnd 431
escdate 04.Dec.96
esctime 20:18:35
DADSdate 97.08.18
DADStime 20:18:35
btchdate 04.Dec.96
btchtime 20:18:35
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 09:50:02 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	71.92	72.58	72.61	72.57	72.7	73.01	73.42	73.64	74.13	74.19	74.04	73.94
100	72.81	73.61	74.09	74.24	74.1	73.69	73.8	74.37	75.45	75.69	75.14	75.39
130	72.63	73.38	72.39	72.06	72.99	73.17	72.63	72.41	72.95	73.11	72.86	73.54
160	73.27	74.67	74.7	74.25	73.91	73.89	74.59	75.3	75.53	75.67	76.04	76.59
200	73.78	74.71	75.29	75.7	75.9	76.01	75.98	75.87	75.96	76.41	77.02	77.3
250	74.59	75.44	75.85	76.04	76.16	76.4	76.85	77.19	77.14	77.27	77.8	78.35
320	76.44	77.76	78.08	77.74	77.36	77.65	77.99	78.03	78.01	78.12	78.45	78.79
400	76.59	77.47	77.73	77.48	77.38	78.68	78.48	78.89	79.56	80.05	80.31	80.71
500	77.42	79.01	78.85	78.59	78.85	79.38	79.78	79.84	79.92	80.09	80.28	81.1
630	77.79	79.32	79.18	79.27	79.76	80.14	80.34	80.58	80.85	80.73	80.85	81.45
800	79.87	81.11	80.91	80.98	81	81.2	81.35	81.39	81.62	81.93	82.29	82.66
1000	82.81	83.24	82.84	82.38	82.25	82.3	82.39	82.44	82.48	82.72	83.34	83.8
1300	84.98	85.13	84.86	84.37	83.47	82.85	82.74	82.93	83.11	83.19	83.43	84.05
1600	86.64	86.01	85.25	84.61	83.8	83.42	83.56	83.72	83.68	83.52	83.9	84.54
2000	86.56	85.45	84.88	84.87	84.59	84.41	84.25	84.15	84	83.85	84.37	85.48
2500	84.31	82.63	83.39	84.27	83.67	83.45	83.51	83.64	83.62	83.71	84.24	85.34
3200	81.51	80.54	81.59	82.26	82.14	82.21	82.73	82.95	82.89	83.06	83.64	84.36
4000	79.17	79.1	79.76	80.1	79.86	80.26	80.85	81.22	81.55	81.68	82.12	82.78
5000	76.64	77.45	78.6	78.71	77.82	78.33	79.16	79.43	79.67	79.96	80.52	81.01
6300	75.3	76.14	77.27	77.3	76.62	77.07	77.96	78.57	78.87	78.82	78.75	79.15
8000	73.89	75.11	76.14	76.24	75.61	76	76.91	77.63	78.17	77.99	78.05	78.06
10000	72.11	72.59	73.23	73.63	73.68	74.04	74.02	74.78	75.62	75.26	75.36	74.43
OASPL	93.92	93.76	93.72	93.68	93.35	93.35	93.54	93.73	93.86	93.94	94.32	94.96

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.11	74.71	75.58	76.55	77.46	78.24	78.92	79.86	80.63	82.14	84.77	118.72
100	75.9	75.89	76.39	77.51	78.19	78.94	79.87	80.91	82.12	83.7	86	119.88
130	74.58	75.42	76.28	77.26	78.32	79.4	80.39	81.23	82.07	83.17	84.87	119.25
160	76.86	76.7	77.54	79.14	79.95	80.47	81.02	81.69	82.43	83.25	84.14	120.52
200	77.71	77.73	78.43	79.51	79.61	79.86	80.41	80.84	81.2	81.49	81.75	120.64
250	78.64	78.72	79.41	80.4	80.78	81.06	81.66	82.6	82.96	82.46	81.79	121.66
320	78.98	79.45	80.03	80.42	80.6	80.78	81.06	81.33	81.29	80.81	80.25	121.96
400	80.91	81.58	82.05	82.07	81.99	81.4	80.54	79.93	79.42	78.96	79.01	122.85
500	81.68	82	82.24	82.23	81.69	81.16	80.76	79.98	79.03	78.29	77.82	123.27
630	81.73	82.23	82.51	82.1	81.01	80.29	79.86	79.17	78.23	77.36	76.74	123.5
800	82.9	83.35	83.46	82.8	81.61	80.42	79.42	78.58	77.78	77.07	76.87	124.52
1000	84.34	84.47	84.3	83.54	82.06	80.49	79.23	78.49	77.79	76.9	76.53	125.61
1300	84.51	85.34	85.51	84.48	82.93	81.16	79.59	78.42	77.58	76.99	76.79	126.5
1600	85.06	86.12	86.43	85.27	83.4	81.45	79.86	78.83	78.06	77.36	77.22	127.12
2000	85.95	86.23	86.13	85.29	83.77	82.01	80.45	79.33	78.5	77.89	77.88	127.43
2500	85.84	86.31	86.08	85	83.69	82.06	80.43	79.25	78.34	77.63	77.43	128.89
3200	84.71	85.07	84.89	83.8	82.26	80.6	79.18	78.22	77.44	76.72	76.53	125.68
4000	82.58	82.39	82.27	81.72	80.41	78.97	77.68	76.58	75.63	74.92	75.03	123.77
5000	80.81	80.37	80.05	79.27	78.09	76.78	75.6	74.7	73.9	73.18	73.24	121.9
6300	78.64	78.51	78.08	77.2	75.88	74.48	73.25	72.33	71.84	71.19	71.41	120.38
8000	77.37	76.77	76.05	75.04	74.03	72.99	71.96	71	70.22	69.73	69.8	119.2
10000	73.64	73.35	73	72.36	71.53	70.23	68.79	67.73	66.9	68.19	66.1	116.4
OASPL	95.27	95.66	95.74	95.18	94.25	93.37	92.85	92.68	92.65	92.8	93.6	137.05

NASA Lewis Allison AST Jet Noise Test 1996

rdg	433
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	933.22
m01	0.29972
pamb	14.3909
tamb	495.458
rhumid	81.77
winds1	0
nprc	1.54
nprb	1.613
ptc	22.162
ptb	23.2125
wactc	3.024
wactb	15.85
ttc	1304.86
ttb	496.711
ptmix	23.0442
ttmix	828.193
mixpnd	0.760652
grsvexp	17613.6
badchan	(25)
bkgnd	431
escdate	04.Dec.96
esctime	20:16:35
DADSdate	97.08.18
DADStime	20:16:35
btchdate	04.Dec.96
btchtime	20:16:35

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:50:11 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (i	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
84	50.62	51.1	51.82	54.58	53.23	52.35	52.16	53.8	55.36	54.76	54.27	53.81
80	49.24	51.96	52.11	50.97	53.08	52.95	53.2	54.3	54.05	53.36	53.67	53.76
100	51.34	51.92	51.21	52.15	51.85	53.23	53.14	52.29	52.5	53.82	52.79	54.7
130	51.28	52.53	53.9	54.27	54.86	55.72	55.25	55.12	54.56	55.91	55.78	56.39
160	51.66	53.32	53.57	54.24	54.9	55.83	56.81	55.6	55.46	55.11	56.37	56.86
200	53.29	54.78	56.14	56.77	56.9	57.03	57.37	56.76	57.58	58.16	58.78	58.72
250	53.61	55.38	55.56	54.94	55.61	57.11	57.24	57.41	57.08	56.94	57.11	58.12
320	53.22	55.41	56.37	56.94	56.92	57.94	58.38	57.98	58.92	59.08	58.81	58.73
400	53.72	55.65	56.02	56.35	57.41	58.08	58.59	58.57	58.68	58.79	59.2	58.72
500	53.57	55.84	56.3	56.8	57.56	58.41	58.82	58.92	59.35	59.23	59.18	59.5
630	55.26	57.61	58.13	58.58	59.23	59.82	59.78	59.27	59.37	59.78	59.92	60.46
800	57.45	58.99	59.34	59.5	59.3	59.25	59.48	59.88	59.92	59.99	60.32	60.44
1000	58.9	59.65	60.05	60.05	59.53	59.34	59.8	59.88	59.96	59.9	59.98	60.5
1300	59.71	59.86	59.51	59.7	59.83	59.8	59.81	60.11	60.13	59.87	60	60.6
1600	57.91	57.5	57.63	58.43	58.45	58.23	58.33	59.84	59.66	59.47	59.76	60.45
2000	53.53	52.81	54.32	55.45	55.43	55.56	56.09	56.36	58.24	58.16	58.44	58.92
2500	48.2	48.19	49.84	50.91	51.09	51.49	52.14	56.25	56	55.93	56	56.13
3200	41.43	42.74	44.39	46.35	45.19	46	46.94	52.35	52.47	52.23	62.16	52.26
4000	32.29	34.7	37.13	38.23	38.07	38.93	40.08	47.18	47.1	46.99	47	46.44
5000	18.72	23	26.47	28.01	28.41	29.57	30.98	40.82	41.05	40.63	40.08	38.79
6300	0	0	0	0	0	0	2.61	31.83	32.26	31.65	30.81	29.58
8000	0	0	0	0	0	0	0	6.02	5.48	3.87	0.58	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	67.21	68.22	68.66	69.07	69.23	69.58	69.87	70.27	70.41	70.44	70.61	71.03
PNL	78.58	79.04	79.45	80.1	80.2	80.36	80.83	80.93	80.94	80.9	81.08	81.47

distance: (i	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
84	55.7	54.3	53.77	53.98	53.32	55.48	54.2	53.36	51.87	50.71	54.46	118.92
80	53.47	54.38	53.95	54.24	54.07	55.86	55.33	54.71	53.99	53.33	52.78	119.13
100	54.74	54.53	56.13	56.63	56.44	56.72	55.59	55.04	54.27	53.38	52.5	119.63
130	55.75	55.62	55.45	56.91	56.04	54.91	56.1	55.43	54.38	52.98	51.11	120.28
160	56.53	56.99	56.88	57.83	57.47	57.32	55.38	54.42	53.04	51.2	49.91	120.62
200	58.56	58.33	58.4	57.86	57.47	56.49	56.59	55.98	55.41	52.71	48.86	121.98
250	58.08	58.57	59.06	58.87	58.17	56.86	55.67	54.44	52.76	50.14	46.68	121.5
320	59.16	59.29	59.08	58.71	57.51	56.03	54.71	52.61	50.37	47.58	44.74	121.87
400	59.64	59.57	59.23	57.81	55.86	54.2	54.18	52.06	49.3	46.1	42.02	121.75
500	59.46	59.25	58.93	57.98	56.06	53.99	52.81	50.52	47.57	44.09	39.93	121.73
630	60.41	60.5	60.03	58.47	55.86	53.1	51.62	49.1	46.17	42.69	38.11	122.53
800	60.65	60.48	59.88	58.44	56.16	53.17	50.64	48.09	44.99	40.9	36.05	122.78
1000	60.8	61.24	60.8	58.88	55.88	52.75	50.06	47.04	43.7	39.75	34.48	123.04
1300	60.76	60.91	60.08	58.19	55.58	52.4	49.56	46.45	43.04	38.58	32.88	122.95
1600	60.33	60.01	59.22	57.21	54.65	51.5	49.07	45.8	42.08	37.46	31.11	122.05
2000	58.71	58.35	57.1	54.91	51.88	48.53	47.97	44.31	40.19	35.04	27.95	119.96
2500	55.6	54.7	53.28	51.13	48.26	44.72	44.98	41.3	36.87	31.02	22.81	118.77
3200	50.98	49.99	48.29	46.06	42.91	39.2	40.98	36.78	31.8	24.86	4.37	112.98
4000	45.28	43.92	42.05	39.37	35.78	31.63	35.12	30.49	24.31	7.67	0	106.57
5000	38.23	38.1	33.71	30.47	26.16	20.07	26.73	18.92	0	0	0	99.48
6300	27.12	24.05	19.83	8.42	0	0	-3	0	0	0	0	89.45
8000	0	0	0	0	0	0	0	0	0	0	0	68.26
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	71.02	71	70.61	69.86	68.14	66.91	65.95	64.64	63.19	61.31	60.3	133.66
PNL	81.25	80.95	80.1	78.5	76.24	73.7	71.02	68.13	65.44	61.89	57.39	79.64

NASA Lewis Allison AST Jet Noise Test 1996

rdg	432
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	NO20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	988.58
m01	0.29972
pamb	14.3919
tamb	496.021
rhumid	81.12
winds1	0
nprc	1.741
nprb	1.825
ptc	25.0563
ptb	26.2652
wactc	3.418
wactb	18.309
ttc	1391.94
ttb	498.724
ptmix	26.075
ttmix	639.241
mixpnd	0.797508
grsvixp	21478.9
badchan	(26)
bkgnd	431
escdate	04.Dec.96
esctime	20:10:34
DADSdate	97.08.25
DADStime	20:10:34
bkchdate	04.Dec.96
bkchtime	20:10:34

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 11:00:49 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	75.04	74.22	75.67	74.71	76.37	77.48	77.51	75.89	76.59	76.48	76.92	76.46
100	76.77	77.84	77.52	77.13	76.65	78.48	77.41	76.32	76.89	78.03	78.78	79.63
130	75.54	75.86	75.95	75.63	76.78	76.11	76.9	75.69	75.52	77.14	77.86	77.53
160	76.19	77.47	78.14	77.72	76.83	78.54	78.28	78.09	79.48	79.13	80.01	80.71
200	77.38	77.81	78.77	79.53	79.16	79.37	79.72	80.57	80.43	79.45	80.51	80.95
250	78.11	79.11	79.28	79.8	79.48	79.43	80.34	79.75	80.23	80.68	80.95	82.11
320	79.43	80.7	80.15	80.84	80.21	81.12	80.86	80.59	80.99	81.51	81.94	82.01
400	80.12	81.25	81	80.86	81.32	81.6	81.96	82.49	83	83.23	83.79	83.81
500	82.21	82.94	82.45	82.41	82.49	82.93	83.22	83.12	82.74	83.28	83.91	84.83
630	82.18	83.35	82.58	82.69	83.39	83.49	83.81	83.75	83.81	84.33	84.34	84.98
800	84.5	84.62	83.71	84.44	84.52	85.29	85.57	85.4	85.57	85.76	85.82	86.55
1000	86.82	86.6	85.82	85.85	85.44	85.97	86.52	86.31	87.1	87.72	88.23	88.98
1300	87.82	87.27	86.53	87.15	87.19	87.24	86.99	87.33	87.59	88.19	88.77	89.38
1600	89.8	88.01	88.24	88.84	88.67	88.67	88.5	88.71	89.09	89.73	90.48	90.8
2000	90.65	89.86	89.35	89.53	89.81	90.01	89.44	89.61	90.04	90.24	91.2	92.6
2500	90.08	89.72	89.5	90.1	90.09	90.26	90.13	90.24	90.4	90.89	91.84	93.09
3200	89.93	89.38	88.76	89.73	90.02	90.08	90.29	90.29	90.79	91.36	92.22	93.48
4000	89.29	89.25	88.62	89.44	89.08	89.48	89.89	89.47	90.1	90.78	91.95	92.94
5000	88.15	88.05	87.75	89.03	87.86	88.52	89.02	89.03	89.14	89.67	90.83	91.59
6300	87.25	87.49	87.05	87.99	86.8	88.26	88.37	88.48	88.72	89.27	89.62	90.48
8000	86.01	86.75	86.37	87.51	86.51	87.41	88.23	88.04	88.23	88.61	89.4	90.02
10000	83.92	83.94	83.02	84.86	84.64	85.76	85.2	85.44	85.45	85.48	86.79	88.05
OASPL	99.51	99.35	98.83	99.52	99.31	99.73	99.83	99.82	100.15	100.63	101.43	102.3

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.11	77.83	78.75	80.29	81.52	82.75	84.19	85.89	87.66	89.64	92.5	123.69
100	79.62	80.65	81.64	81.94	82.54	83.82	85.42	86.83	88.28	90.14	92.77	124.8
130	78.46	79.51	80.92	82.18	82.28	83.57	85.84	87.83	88.97	90.32	92.41	124.55
160	80.6	80.72	81.86	83.03	82.87	83.83	85.31	86.83	88	88.96	90.05	124.7
200	81.54	81.55	82.5	84.1	84.71	84.93	85.56	86.91	88.08	88.74	89.7	125.42
250	83.75	84.03	84.49	85.61	86.13	86.47	86.97	87.73	88.46	88.99	89.21	126.38
320	83.01	83.77	84.45	85.11	85.35	86.01	86.75	86.87	88.89	86.95	88.1	126.12
400	84.65	85.6	85.83	85.98	86.68	86.46	85.71	85.54	85.48	85.32	85.14	126.87
500	85.06	85.04	85.6	86.21	86.23	86.13	86.04	85.83	85.28	84.52	84.23	127.19
630	85.74	86.4	86.28	85.76	85.62	85.55	85.26	84.57	83.82	83.26	82.45	127.4
800	87.31	87.26	86.86	86.1	84.85	84.38	84.43	84.1	83.59	83.03	81.98	128.39
1000	89.46	89.81	89.27	87.57	85.32	84.21	84	83.53	82.82	82.03	81.07	129.99
1300	90.16	90.67	89.77	87.79	86.11	85.06	84.32	83.45	82.66	82.16	81.78	130.69
1600	91.5	92.12	91.3	89.07	88.62	85.37	84.56	83.73	82.82	81.98	82.02	132.13
2000	93.01	93.08	92.45	90.71	88.22	86.52	85.5	84.34	83.18	82.36	82.52	133.22
2500	93.67	93.55	92.93	91.55	89.24	87.26	85.89	84.83	83.83	82.93	82.97	133.7
3200	93.94	93.7	93.05	91.7	89.31	87.35	86.13	85.2	84.15	82.99	82.99	133.83
4000	92.97	92.03	91.2	90.32	88.51	86.69	85.32	84.17	82.78	81.38	81.61	133.01
5000	91.53	90.73	88.79	88.54	86.57	84.84	83.66	82.7	81.3	79.74	80.4	131.84
6300	90.43	89.65	88.7	87.42	85.39	83.82	82.44	81.57	80.41	79.19	80.08	130.98
8000	89.34	88.48	87.45	85.93	84.08	82.69	81.89	81.23	79.97	78.4	79.27	130.29
10000	85.51	85.26	84.84	83.51	82.14	80.35	78.92	78.56	77.6	75.7	78.08	127.48
OASPL	102.83	102.5	101.94	100.86	99.45	98.62	98.45	98.56	98.77	99.22	100.42	143.35

NASA Lewis Allison AST Jet Noise Test 1996

rdg	432
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	988.58
m01	0.29972
pamb	14.3919
tamb	496.021
rhumid	81.12
winds1	0
nprc	1.741
nprb	1.825
ptc	25.0563
ptb	26.2652
wactc	3.418
wactb	18.309
ttc	1391.94
ttb	498.724
ptmix	26.075
ttmix	639.241
mixpnd	0.797508
grsvisp	21478.9
badchan	(26)
bkgnd	431
eacdate	04.Dec.96
eactime	20:10:34
DADSdate	97.08.25
DADStime	20:10:34
btchdate	04.Dec.96
btchtime	20:10:34

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 11:00:59 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance (i	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	53.63	54.79	55	56.97	57.74	56.63	55.47	55.85	58.47	57.71	57.45	57.87	59.9	59.1	58.62	57.84	57.49	60.36	59.46	59.59	58.9	58.21	61.54	123.85
80	53.35	56.54	56.11	54.64	56.94	56.29	57.37	56.25	55.15	55.43	58.46	58.3	56.65	58.55	59.23	59.9	58.59	60.15	60.85	60.84	60.22	59.87	59.63	124.13
100	54.37	54.57	55.27	55.74	54.84	56.33	57.07	55.77	55.09	57.42	57.32	59.04	58.68	58.45	59.91	59.68	58.7	59.89	61.08	61.43	61.15	60.53	60.03	124.47
130	53.63	55.78	57.28	57.29	58.39	58.87	59.04	57.81	58.86	59.12	59.22	59.93	59.07	60.08	60.95	62.34	61.4	60.3	60.38	60.57	59.91	58.64	56.94	124.81
160	54.88	55.89	56.4	57.41	56.93	59.14	60.25	60.3	60.3	58.64	59.95	60.22	61.3	61.83	61.54	62.9	62.5	62.57	60.57	60.48	59.8	58.32	57.31	125.45
200	56.84	58.35	59.04	60.46	60.02	60.58	60.36	59.32	58.94	60.91	61.78	61.63	63	62.98	62.97	62.77	62.45	61.68	61.83	61.11	60.73	59.06	56.28	126.27
250	56.9	58.26	58.37	58.16	59.59	60.08	60.58	59.98	60.14	60.35	59.69	60.91	61.13	62.05	62.58	62.63	62.81	61.72	61.36	59.97	58.54	56.48	52.55	125.47
320	56.98	59.4	59.47	60.06	60.29	61.77	61.76	61.56	62.4	62.63	63.03	62.32	63.53	63.48	62.99	62.69	62.01	61.06	59.9	58.21	56.42	53.8	50.7	125.98
400	58.39	59.43	59.52	60.05	60.88	61.13	62.03	61.66	61.53	61.94	62.46	63.51	63.27	63.38	63.03	61.98	60.79	59.59	59.58	57.94	55.49	52.27	48.34	125.87
500	58.16	60.04	59.68	60.72	61.49	62.69	63.04	62.1	62.21	62.74	63.03	63.26	63.43	62.84	62.43	61.26	59.33	58	58.1	55.93	53.23	49.92	45.41	125.55
630	59.8	61.59	61.4	61.91	62.51	63.03	63.94	63.29	63.5	63.96	63.8	65.15	65.29	65.4	64.37	62.1	59.17	57.03	56.7	54.63	51.91	48.54	43.24	126.68
800	61.31	61.48	61.54	62.68	62.82	63.61	63.72	63.75	64.52	64.95	65.39	65.72	66.09	65.68	64.34	61.88	59.27	57.06	55.42	53.12	50.08	46.26	40.82	127.1
1000	61.82	62.16	62.18	63.59	64.21	64.67	64.6	64.27	64.65	65.31	65.76	65.99	66.83	67.11	65.43	62.33	59.17	56.5	54.84	52.09	48.77	44.86	39.44	127.76
1300	62.68	63.01	63.14	63.99	64.5	65.26	64.98	65.09	65.54	66.17	66.73	67.25	67.3	67.32	66.05	63.34	59.97	56.98	54.2	51.32	47.76	43.13	37.61	128.42
1600	62.14	62.44	62.79	63.54	64.14	64.77	64.88	65.29	65.78	65.82	66.77	67.91	68	67.01	65.72	63.48	59.79	56.46	54.1	50.8	46.73	41.89	35.91	128.38
2000	59.85	60.31	60.64	62.17	62.89	63.16	63.55	64.95	65.13	65.68	66.21	67.19	67.14	66.47	64.99	62.54	58.75	55.13	53.34	49.84	45.67	40.28	33.46	127.5
2500	56.86	57.34	57.8	59.3	59.79	60.32	60.9	63.54	64.01	64.34	65.03	65.69	65.25	63.82	61.92	59.56	56.2	52.4	51.8	48.25	43.6	37.39	29.49	125.45
3200	51.66	53.13	53.44	55.39	54.88	55.82	56.65	60.51	61.03	61.45	62.18	62.41	61.62	59.65	57.54	54.99	51.41	47.34	48.57	44.33	38.73	31.38	21.91	121.85
4000	43.85	45.29	46.41	46.42	47.96	49.99	50.46	56.63	56.63	56.88	57.49	57.41	58.51	54.71	52.36	49.34	45	40.44	43.14	38.4	31.98	22.53	0	116.81
5000	32.67	35.12	36.81	39.14	39.13	40.83	42.17	50.71	50.91	51.26	51.09	51.37	49.99	47.64	44.81	41.22	36.49	31.42	35.78	30.35	21.72	0	0	110.3
6300	5.89	17.41	20.35	23.65	24.46	26.89	27.69	42.14	42.3	42.23	42.32	41.59	39.52	36.72	33.29	28.86	22.98	9.86	25.62	15.48	0	0	0	100.68
8000	0	0	0	0	0	0	0	27.8	27.27	26.24	26.34	22.7	18.88	12.65	0	0	0	0	0	0	0	0	0	84.1
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	71.15	72.05	72.22	73.14	73.66	74.31	74.55	74.8	75.19	75.57	76.09	76.7	76.87	76.58	75.88	74.32	72.62	71.88	71.19	70.33	69.28	67.87	67.21	138.7
PNL	83.23	83.94	84.25	85.2	85.7	86.4	86.57	86.84	87.13	87.56	88.09	88.79	88.74	88.12	88.85	84.85	81.9	79.26	77.02	74.32	71.76	68.72	65.04	86.02

100%L, 20MH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL

1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL

Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg 337
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 575.53
m01 0.0022
pamb 14.3407
tamb 499.938
rhumid 62.85
winds1 0
nprc 1.171
nprb 1.21
ptc 16.793
ptb 17.3522
wactc 1.761
wactb 9.51
ttc 1093.75
ttb 494.239
ptmix 17.2649
ttmix 587.907
mixpnd 0.484138
grsvixp 6486.6
badchan (26)
bkgnd 331
escdate 02.Dec.96
esctime 17:26:21
DADSdate 02.Dec.96
DADStime 17:26:21
btchdate 02.Dec.96
btchtime 17:26:21
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:59:15 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	62.87	63.57	64.27	64.98	65.68	66.39	67.11	67.83	68.55	69.27	69.99	70.71
100	62.73	63.59	64.47	65.36	66.25	67.14	68.03	68.9	69.75	70.57	71.37	72.14
130	63.36	64.20	65.01	65.58	66.04	66.43	66.8	67.19	67.66	68.23	68.95	69.86
160	65.59	66.31	66.88	67.34	67.71	68.04	68.36	68.7	69.09	69.57	70.18	70.93
200	66.29	67.11	67.8	68.39	68.91	69.39	69.86	70.35	70.87	71.44	72.07	72.77
250	67.19	68.15	68.97	69.68	70.31	70.91	71.5	72.12	72.79	73.55	74.43	75.42
320	67.86	68.8	69.53	70.12	70.59	71.01	71.4	71.83	72.32	72.92	73.67	74.59
400	66.22	67.45	68.57	69.52	70.25	70.76	71.26	71.88	72.67	73.58	74.51	75.22
500	66.59	67.74	68.7	69.46	70.01	70.4	70.8	71.44	72.24	73.03	74	75.12
630	66.56	68.09	69.43	70.51	71.02	71.4	71.82	72.41	73	73.5	74.53	75.38
800	66.57	68.39	69.21	69.52	69.74	70.13	70.65	71.46	72.52	73.61	74.6	75.23
1000	66.35	67.65	68.31	68.7	69.13	69.62	70.72	71.69	72.65	73.58	74.48	75.03
1300	65.21	66.67	67.4	67.97	68.67	69.33	69.94	70.52	71.09	71.71	72.4	73.12
1600	64.33	65.68	66.47	66.97	67.38	67.88	68.51	69.23	69.94	70.57	71.33	72.27
2000	63.39	64.66	65.42	65.91	66.37	66.87	67.34	67.89	68.58	69.34	70.26	71.11
2500	62.69	63.79	64.48	64.94	65.41	65.99	66.59	67.13	67.69	68.22	68.99	69.86
3200	62.01	63.3	63.98	64.52	64.95	65.57	66.33	66.96	67.45	68.03	68.8	69.55
4000	61.11	62.44	63.09	63.67	64.36	65.27	66.09	66.57	67.17	67.9	68.76	69.42
5000	60.13	61.92	62.58	63.01	63.57	64.68	65.89	66.6	67.12	67.86	68.86	69.45
6300	59.52	61.56	62.26	62.58	63.27	64.67	66.13	67.2	68.02	68.88	69.52	70.09
8000	59.05	61.59	62.47	62.69	63.71	65.33	66.85	67.97	68.81	69.61	70.63	71.39
10000	58.91	59.13	60.41	61.63	62.96	64.43	65.44	66.54	67.38	67.94	69.22	69.48
OASPL	78.03	79.25	80.09	80.72	81.27	81.85	82.48	83.13	83.83	84.56	85.43	86.21

distance: (i	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.43	72.13	72.83	73.5	74.18	74.8	75.41	75.98	76.52	77.02	0	114.21
100	72.86	73.55	74.19	74.77	75.3	75.77	76.17	76.49	76.74	76.9	0	115.14
130	70.91	72.09	73.33	74.58	75.77	76.84	77.6	77.89	77.47	76.17	0	114.95
160	71.77	72.65	73.52	74.31	74.98	75.54	76.02	76.41	76.55	76.17	0	114.8
200	73.52	74.26	74.96	75.53	75.84	75.82	75.48	74.76	73.71	72.49	0	115.42
250	76.44	77.36	78.04	78.45	78.54	78.29	77.63	76.48	74.72	72.35	0	117.77
320	75.6	76.63	77.31	77.47	77.49	76.99	75.91	74.35	72.89	71.53	0	116.95
400	75.66	76.53	77.27	77.19	76.5	75.41	74.1	72.82	71.16	69.8	0	116.64
500	76.2	76.75	77.39	77.39	76.63	75.39	74	72.5	70.94	69.43	0	116.61
630	75.89	76.88	77.15	77.15	75.82	73.97	72.27	71.08	70.1	69.5	0	116.59
800	75.63	76.44	77.05	76.39	74.57	72.98	71.63	70.33	69.16	67.73	0	116.11
1000	75.17	75.79	76.05	75.15	73.48	72.03	70.54	68.91	67.47	65.94	0	115.55
1300	73.62	74.62	75.3	74.43	72.09	70.49	69.44	68.26	66.62	65.02	0	114.31
1600	73.1	74.01	74.98	74.26	71.61	70.2	68.78	66.93	65.36	64.13	0	113.53
2000	71.86	72.81	73.45	72.25	69.96	68.86	67.65	65.57	63.77	62.3	0	112.2
2500	70.78	71.65	71.82	70.35	67.99	67.26	66.16	63.82	62.27	60.83	0	110.93
3200	70.13	70.97	71.15	69.57	67.14	66.48	65.49	62.37	60.27	58.7	0	110.41
4000	69.38	69.67	70.18	68.62	65.93	65.02	63.96	60.62	57.84	56.26	0	109.74
5000	69.34	69.47	69.19	67.62	64.95	63.93	63.04	59.27	56.26	55.13	0	109.39
6300	70.26	70.27	69.77	67.59	64.43	63.63	62.8	58.11	54.38	53.48	0	109.87
8000	71.33	70.96	70.38	68.49	64.98	63.51	62.65	57.5	53.38	53.54	0	110.68
10000	69.78	70.3	70.27	68.07	63.86	61.53	60.42	55.94	51.55	51.28	0	109.44
OASPL	86.84	87.59	88.16	87.96	87.34	86.89	86.42	85.82	85.19	84.46	0	127.9

NASA Lewis Allison AST Jet Noise Test 1996

rdg	337
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	MD20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	575.53
m01	0.0022
pamb	14.3407
tamb	499.938
rhumid	62.85
windst	0
nprc	1.171
nprb	1.21
ptc	16.793
ptb	17.3522
wactc	1.761
wactb	9.51
ttc	1093.75
ttb	494.239
ptmix	17.2649
ttmix	587.907
mixpnd	0.484138
gravtxp	6486.8
badchan	(26)
bkgnd	331
escdate	02.Dec.96
esctime	17:26:21
DADSdate	02.Dec.96
DADStime	17:26:21
btchdate	02.Dec.96
btchtime	17:26:21

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 02:59.24 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	41.08	42.27	43.37	44.39	45.34	46.22	47.03	47.79	48.47	49.09	49.65	50.13
100	40.91	42.26	43.53	44.74	45.88	46.94	47.92	48.83	49.84	50.37	51	51.52
130	41.48	42.9	44.03	44.92	45.62	46.19	46.65	47.08	47.51	47.98	48.53	49.19
160	43.63	44.85	45.82	46.8	47.22	47.72	48.14	48.52	48.87	49.28	49.69	50.2
200	44.21	45.53	46.64	47.58	48.32	48.98	49.55	50.07	50.58	51.02	51.48	51.93
250	44.93	46.4	47.84	48.66	49.58	50.33	51.03	51.68	52.32	52.97	53.67	54.4
320	45.38	46.83	48	48.92	49.66	50.28	50.78	51.22	51.68	52.17	52.75	53.4
400	43.38	45.13	46.89	48	48.99	49.7	50.31	50.97	51.72	52.52	53.28	53.71
500	43.3	45.02	46.44	47.57	48.4	48.98	49.5	50.18	50.94	51.61	52.38	53.22
630	42.76	44.9	46.73	48.2	49.01	49.6	50.14	50.77	51.32	51.71	52.53	53.07
800	42.21	44.67	46	46.72	47.25	47.86	48.51	49.37	50.39	51.38	52.14	52.48
1000	41.44	43.41	44.61	45.42	46.17	47.09	48.12	49.14	50.06	50.84	51.53	51.78
1300	39.69	41.87	43.18	44.17	45.21	46.12	46.87	47.49	48.02	48.49	48.95	49.32
1600	38.12	40.23	41.62	42.59	43.38	44.09	44.87	45.63	46.3	46.79	47.3	47.9
2000	36.31	38.37	39.77	40.77	41.81	42.37	42.99	43.6	44.23	44.84	45.5	45.97
2500	34.4	36.37	37.74	38.74	39.62	40.49	41.25	41.85	42.35	42.72	43.2	43.68
3200	31.94	34.2	35.64	36.77	37.65	38.59	39.54	40.25	40.67	41.07	41.53	41.82
4000	28.27	30.7	32.27	33.57	34.78	36.04	37.08	37.8	38.13	38.64	39.12	39.27
5000	22.62	26.28	27.99	29.24	30.43	31.98	33.43	34.17	34.61	35.14	35.68	35.62
6300	0	13.82	19.82	21.73	23.99	26.39	28.17	29.3	29.94	30.44	30.58	30.32
8000	0	0	0	0	0	8.94	17.25	19.7	20.97	21.7	22.07	21.58
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	54.35	56.01	57.31	58.34	59.16	59.86	60.51	61.17	61.81	62.43	63.07	63.81
PNL	59.78	61.91	63.42	64.52	65.43	66.32	67.14	67.83	68.45	69.02	69.65	70.11

distance: (	1655.07	1732.06	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	50.52	50.83	51.04	51.13	51.09	50.89	50.5	49.87	48.93	47.57	0	114.14
100	51.93	52.21	52.36	52.36	52.19	51.81	51.21	50.32	49.08	47.35	0	115.03
130	49.83	50.71	51.48	52.11	52.6	52.81	52.57	51.62	49.7	48.49	0	114.76
160	50.72	51.19	51.58	51.75	51.71	51.41	50.87	50.02	48.63	46.3	0	114.53
200	52.35	52.68	52.87	52.83	52.42	51.53	50.14	48.15	45.53	42.32	0	115.04
250	55.09	55.59	55.77	55.55	54.9	53.78	52.03	49.57	46.18	41.7	0	117.19
320	54.07	54.67	54.62	54.35	53.59	52.18	49.96	47.04	43.87	40.3	0	116.17
400	53.79	54.21	54.4	53.68	52.18	50.12	47.64	44.73	41.45	37.69	0	115.5
500	53.93	54.03	54.09	53.39	51.8	49.53	46.9	43.85	40.32	36.21	0	115.04
630	53.21	53.49	53.36	52.62	50.39	47.45	44.4	41.53	38.39	34.89	0	114.6
800	52.46	52.75	52.71	51.28	48.51	45.74	42.98	39.69	36.4	31.86	0	113.6
1000	51.47	51.55	51.13	49.42	46.74	44.07	41.05	37.51	33.56	28.63	0	112.55
1300	49.57	49.81	49.78	48.04	44.85	41.74	39.07	35.86	31.55	26.24	0	110.73
1600	48.25	48.55	48.78	47.16	43.38	40.57	37.4	33.35	28.9	23.68	0	109.28
2000	46.21	46.54	46.39	44.21	40.72	38.13	35.23	30.58	25.59	19.43	0	107.16
2500	44.08	44.28	43.54	41	37.3	34.92	31.75	26.73	21.59	3.34	0	104.82
3200	41.8	41.87	41.05	38.3	34.38	31.83	28.49	22.15	5.84	0	0	102.73
4000	38.57	37.98	37.36	34.37	29.83	26.8	22.72	5.92	0	0	0	99.87
5000	34.63	33.65	32.07	28.88	23.86	18.14	0	0	0	0	0	95.65
6300	29.39	28.11	25.78	19.63	0	0	0	0	0	0	0	90.12
8000	19.4	13.27	0	0	0	0	0	0	0	0	0	79.97
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	63.98	64.33	64.44	63.9	62.9	61.75	60.4	58.74	56.7	54.11	0	126.14
PNL	70.31	70.5	70.44	69.16	67.08	65.11	62.76	59.6	55.68	50.81	0	88.68

NASA Lewis Allison AST Jet Noise Test 1996

rdg	338
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	816.27
m01	0.00241
pamb	14.3437
tamb	499.755
rhumid	64.95
winds1	0
nprc	1.389
nprb	1.442
ptc	19.9234
ptb	20.6836
wactc	2.657
wactb	13.68
ttc	1160.86
ttb	495.882
ptmix	20.56
ttmix	604.032
mixpnd	0.677423
gravup	13335.4
badchan	(26)
bkgnd	331
escdate	02.Dec.96
esctime	17:40:58
DADSdate	97 08.18
DADStime	17:40:58
btchdate	02.Dec.96
btchtime	17:40:58

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:27:58 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	72.93	73.48	74.04	74.62	75.24	75.9	76.58	77.24	77.86	78.49	79.13	79.81
100	74.51	75.73	76.83	77.68	78.17	78.25	78.12	78.03	78.16	78.56	79.26	80.26
130	74.52	75.23	75.72	76.05	76.26	76.42	76.57	76.78	77.05	77.49	78.16	79.14
160	76.01	76.5	76.99	77.48	77.94	78.36	78.78	79.24	79.78	80.43	81.24	82.16
200	77.17	77.8	78.35	78.82	79.2	79.5	79.75	79.96	80.64	81.6	81.73	83.07
250	77.13	77.67	78.17	78.73	79.44	80.13	80.32	80.59	80.87	81.31	82.22	83.22
320	77.76	78.46	78.94	79.27	78.52	79.98	80.62	80.49	80.82	81.5	82.3	82.9
400	77.55	77.97	78.33	79.09	79.9	81.02	81.72	81.93	81.95	82.2	83.16	84.12
500	77.42	78.15	78.75	79.32	79.76	80.17	80.4	80.7	81.32	81.85	82.36	83.64
630	77.4	78.44	79.11	79.6	80.34	81.32	81.65	81.91	82.13	82.92	83.36	83.86
800	77.65	78.98	79.94	80.39	80.56	80.89	81.26	82.05	82.8	83.28	83.86	84.65
1000	77.63	79.27	80.12	80.57	80.8	81.14	81.8	82.47	82.94	83.06	83.6	84.5
1300	77.74	79.48	80.25	80.63	80.86	81.25	81.78	81.85	82.06	82.64	83.43	83.89
1600	77.81	79.6	80.04	80.19	80.41	80.86	81.1	81.3	81.65	82.06	82.92	84.09
2000	77.07	78.67	79.1	79.32	79.64	80.14	80.58	80.8	81.12	81.55	82.38	83.3
2500	75.81	76.98	77.53	77.91	78.26	78.67	79.3	79.95	80.22	80.44	81.23	82.34
3200	74.39	75.51	76.04	76.46	77	77.8	78.8	79.1	79.5	79.76	80.15	80.96
4000	73.24	74.41	74.93	75.35	75.79	76.64	77.56	78.02	78.49	79.1	79.62	79.99
5000	71.86	73.26	73.87	73.84	74.28	75.43	76.63	77.15	77.51	78.16	78.69	78.99
6300	70.45	72.07	72.58	72.75	73.12	74.39	75.94	76.63	77.01	77.7	77.7	77.89
8000	69.38	71.02	71.6	71.84	72.26	73.58	75.4	76.04	76.51	77.63	77.74	77.8
10000	66.29	67.9	68.78	69.51	70.45	71.86	73.28	73.71	74.17	75.86	75.82	74.28
OASPL	89.33	90.45	91.07	91.5	91.91	92.47	92.98	93.33	93.71	94.24	94.86	95.68

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.6	81.57	82.8	84.35	86.3	88.54	90.72	92.47	93.42	93.19	0	127.54
100	81.46	82.77	84.13	85.66	87.49	89.55	91.46	92.81	93.25	92.43	0	128.04
130	80.47	82	83.59	85.13	86.53	87.76	88.65	89.79	89.88	88.48	0	125.88
160	83.03	83.61	84.3	85.73	87.09	88.11	89.05	89.58	89.56	89	0	126.65
200	83.63	83.83	84.57	86.19	87.87	88.6	88.46	88.21	86.6	84.92	0	126.55
250	83.77	85.06	85.89	86.69	87.64	88.36	88.12	87.53	86.37	84.42	0	126.69
320	83.86	85.2	86.04	86.86	87.32	87.48	87.19	86.06	84.51	82.36	0	126.36
400	84.36	85.26	85.66	85.95	86.52	86.44	85.71	84.52	83	81.1	0	126.17
500	84.77	85.43	85.86	85.61	86.94	85.9	84.96	83.53	81.8	80.05	0	125.78
630	84.62	85.37	85.89	85.42	85.43	84.74	83.48	81.69	79.87	78.26	0	125.81
800	85.58	85.98	85.52	85.04	84.89	84.24	82.75	81.18	79.39	77.5	0	125.96
1000	85.37	86.24	86.24	84.72	83.72	82.78	81.53	79.72	77.96	76.48	0	125.85
1300	85.03	86.34	86.06	83.95	83.29	82.5	81.24	79.59	77.36	75.55	0	125.58
1600	85	86.37	86.41	83.29	82.49	81.78	80.28	78.24	76.15	74.39	0	125.3
2000	84.51	86.14	85.97	82.74	82.03	81.14	79.5	77.7	75.93	73.62	0	124.75
2500	83.51	85.22	85	82.16	81.19	80.21	78.46	76.19	73.95	71.95	0	123.7
3200	82.07	83.7	83.66	81.11	80.22	79.06	77.26	74.69	72.57	70.39	0	122.51
4000	80.51	81.73	82.12	79.5	78.8	78	76.18	72.86	70.44	68.35	0	121.23
5000	79.36	79.89	79.81	77.79	76.67	76.31	74.82	71.03	68.36	66.17	0	119.85
6300	78.65	78.94	78.52	76	74.98	75.21	73.64	69.25	65.86	64.61	0	118.86
8000	78.28	77.9	77.13	75.33	73.9	73.87	72.65	67.92	64.18	63.26	0	118.25
10000	75.61	75.88	75.46	73.1	71.08	70.94	69.62	65.04	61.3	60.36	0	115.96
OASPL	96.56	97.58	97.89	97.51	98.05	98.59	98.94	99.24	99.12	98.21	0	138.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg	336
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	616.27
m01	0.00241
pamb	14.3437
tamb	499.755
rhumid	64.95
winds1	0
nprc	1.369
nprb	1.442
ptc	19.9234
ptb	20.6836
wactc	2.657
wactb	13.66
ttc	1160.86
ttb	495.882
ptmix	20.56
ttmix	604.032
mixpnd	0.677423
grsvkp	13335.4
badchan	(26)
bkgnd	331
escdate	02 Dec 96
esctime	17:40:58
DADSdate	97 08.18
DADStime	17:40:58
btchdate	02 Dec 96
btchtime	17:40:58

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 10:28:07 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	51.15	52.18	53.14	54.04	54.9	55.73	56.5	57.2	57.79	58.31	58.78	59.23
100	52.68	54.4	55.9	57.07	57.79	58.04	58.01	57.96	58.06	58.36	58.89	59.64
130	52.65	53.85	54.74	55.39	55.85	56.17	56.42	56.65	56.9	57.24	57.74	58.48
160	54.05	55.04	55.94	56.74	57.45	58.04	58.57	59.06	59.57	60.12	60.75	61.43
200	55.1	56.23	57.19	57.99	58.62	59.09	59.44	59.69	60.33	61.19	61.15	62.24
250	54.87	55.93	56.85	57.73	58.69	59.58	59.88	60.16	60.4	60.75	61.48	62.22
320	55.27	56.49	57.4	58.07	58.54	59.21	59.98	59.88	60.17	60.74	61.35	61.7
400	54.89	55.66	56.47	57.57	58.65	59.96	60.77	61.04	61.01	61.15	61.93	62.61
500	54.13	55.44	56.51	57.45	58.18	58.76	59.1	59.44	60.02	60.43	60.75	61.75
630	53.59	55.24	56.41	57.28	58.32	58.51	59.96	60.27	60.45	61.11	61.34	61.57
800	53.28	55.26	56.74	57.59	58.08	58.62	59.12	59.96	60.67	61.02	61.38	61.87
1000	52.72	55.02	56.42	57.29	57.84	58.41	59.2	59.91	60.33	60.33	60.65	61.22
1300	52.21	54.65	56	56.83	57.4	58.02	58.69	58.81	58.97	59.41	59.97	60.09
1600	51.8	54.13	55.17	55.79	56.37	57.07	57.45	57.7	58	58.26	58.87	59.69
2000	50	52.4	53.48	54.19	54.88	55.85	56.24	56.5	56.76	57.05	57.61	58.15
2500	47.34	49.6	50.83	51.74	52.5	53.2	53.98	54.67	54.88	54.94	55.45	56.17
3200	44.33	46.42	47.72	48.73	49.73	50.84	51.83	52.39	52.73	52.79	52.86	53.25
4000	40.41	42.71	44.18	45.3	46.27	47.44	48.57	49.12	49.52	49.9	50.04	49.89
5000	34.86	37.65	39.12	40.12	41.17	42.79	44.25	44.79	45.05	45.47	45.61	45.3
6300	26.86	30.13	32.01	33.25	34.47	36.28	38.09	38.89	39.19	39.54	38.93	38.33
8000	0	15.27	20.17	22.8	24.51	26.68	29.29	30.18	30.53	31.15	30.46	29.35
10000	0	0	0	0	0	0	0	-2.34	0.99	8.12	0	0
OASPL	65.33	66.86	67.96	68.81	69.53	70.25	70.77	71.11	71.46	71.86	72.32	72.94
PNL	72.61	74.7	75.86	76.75	77.51	78.34	79.01	79.43	79.73	80.02	80.47	80.99

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.7	60.27	61.01	61.98	63.22	64.63	65.82	66.37	65.84	63.74	0	127.46
100	60.53	61.44	62.31	63.25	64.38	65.6	66.5	66.65	65.59	62.9	0	127.91
130	59.49	60.62	61.72	62.67	63.35	63.74	63.81	63.53	62.09	58.81	0	125.68
160	61.97	62.15	62.35	63.17	63.82	63.99	63.9	63.19	61.63	59.12	0	126.36
200	62.47	62.26	62.49	63.5	64.46	64.31	63.12	61.6	58.42	54.74	0	126.14
250	62.44	63.31	63.63	64	64.02	63.85	62.53	60.62	57.85	53.8	0	126.06
320	62.33	63.22	63.55	63.75	63.41	62.65	61.24	58.74	55.48	51.13	0	125.51
400	62.48	62.95	62.8	62.42	62.18	61.14	59.26	56.62	53.3	48.99	0	125
500	62.51	62.71	62.57	61.62	61.12	60.08	57.88	54.89	51.18	46.81	0	124.17
630	61.92	62.18	62.1	60.89	60.01	58.23	55.63	52.18	48.25	43.79	0	123.78
800	62.39	62.27	61.16	59.91	58.6	56.99	54.09	50.75	46.64	41.61	0	123.43
1000	61.66	61.98	61.32	58.98	56.97	54.81	52.04	48.32	44.07	39.16	0	122.84
1300	60.8	61.52	60.54	57.55	55.84	53.74	50.87	47.18	42.23	36.7	0	122.01
1600	60.13	60.89	60.17	56.16	54.23	52.13	48.91	44.65	39.62	33.81	0	121.1
2000	58.86	59.86	58.88	54.67	52.77	50.39	46.85	42.65	37.68	30.88	0	119.76
2500	56.78	57.82	56.72	52.78	50.52	47.87	44.03	39.08	33.29	26.26	0	117.6
3200	53.78	54.84	53.59	49.82	47.45	44.4	40.22	34.78	28.31	19.24	0	114.8
4000	49.72	50.14	49.39	45.31	42.68	39.83	35.17	28.17	19.88	0	0	111.13
5000	44.81	44.19	42.78	39.09	35.85	32.64	27.64	17.35	0	0	0	108.11
6300	38.03	37.02	34.83	30.12	26.14	22.2	9.9	0	0	0	0	99.41
8000	28.56	26.14	22.44	13.79	0	0	0	0	0	0	0	90.05
10000	0	0	0	0	0	0	0	0	0	0	0	66.05
OASPL	73.41	73.91	73.85	73.53	73.65	73.57	73.19	72.52	71.04	68.29	0	136.87
PNL	81.5	82.16	81.53	79.07	78.26	77.07	75.17	72.66	69.52	65.37	0	80.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg	339
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	927.44
m01	0.00262
pamb	14.3432
tamb	499.414
rhumid	85.53
winds1	0
nprc	1.541
nprb	1.814
ptc	22.1029
ptb	23.1498
wactc	2.883
wactb	16.053
ttc	1303.19
ttb	497.781
ptmix	22.9905
ttmix	620.404
mixpnd	0.759459
grsvisp	17562
badchan	(26)
bkgnd	331
escdate	02.Dec.96
esctime	17:50:10
DADSdate	97.08.18
DADStime	17:50:10
btchdate	02.Dec.96
btchtime	17:50:10

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:30:43 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (ft)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.49	79.25	79.67	79.92	80.2	80.63	81.2	81.86	82.56	83.24	83.66	84.46	85.12	86.04	87.38	89.29	91.91	94.63	96.7	98.47	99.84	100.27	0	133.53
100	79.28	79.94	80.51	80.99	81.42	81.82	82.21	82.6	83.03	83.52	84.09	84.82	85.81	87.19	89.02	91.24	93.79	96.41	98.58	99.76	99.66	99.1	0	134.38
130	80.65	81.16	81.43	81.53	81.51	81.45	81.42	81.47	81.69	82.13	82.67	83.96	85.39	87.12	89.12	91.29	93.52	95.5	96.95	97.96	98.02	97.01	0	133.11
160	81.53	82.04	82.24	82.41	82.8	83.59	84.35	84.56	84.95	86.24	87.05	86.57	87	88.77	90.34	91.77	93.33	95.25	97.01	97.56	97.61	97.02	0	133.44
200	81.95	82.74	83.35	83.69	83.7	83.7	84.37	85.31	86	86.37	86.69	87.41	88.73	89.75	90.19	91.28	92.83	93.79	94.16	94.1	93.54	92.3	0	131.95
250	81.61	82.21	82.65	82.96	83.19	83.39	83.75	84.49	85.23	85.96	87.47	88.69	89.32	90.16	90.65	92.24	94.87	95.48	94.66	94.01	93.02	91.37	0	132.53
320	82.42	82.77	83.1	83.51	84.13	84.64	84.66	85.18	85.7	86.18	86.71	87.59	88.87	89.86	90.81	91.86	93.66	94.3	93.8	92.7	90.85	88.95	0	131.84
400	81.5	82.34	82.94	83.46	84	84.71	85.53	86.09	86.66	88.03	88.47	89.34	89.17	91.07	92.04	92	92.74	92.59	91.51	90.29	88.97	87.66	0	131.68
500	82.11	82.72	83.18	83.63	84.08	84.43	84.71	85.25	86.08	87.19	87.85	88.14	88.89	90.65	91.38	91.35	92.33	92.13	90.76	89.06	87.55	85.86	0	131.08
630	82.19	82.96	83.38	83.74	84.32	85.13	85.7	86.21	86.79	87.47	88.15	88.74	89.32	90.5	91.36	91.08	91.7	91	89.39	87.7	86.1	84.26	0	130.94
800	82.74	83.83	84.31	84.55	84.9	85.3	85.58	86.37	86.63	87.07	88.06	88.69	89.77	90.71	90.81	90.39	90.58	90.19	88.44	87.15	85.52	83.22	0	130.7
1000	83.31	84.88	85.44	85.43	85.3	85.49	85.93	86.26	86.83	87.53	88.37	89.2	90.17	91.46	90.66	90.06	90.33	89.48	87.77	86	84.21	82.18	0	130.84
1300	83.7	85.25	85.36	85.11	85.21	85.67	86.16	86.67	87.21	87.97	88.54	89.02	90.68	92.08	90.68	89.25	89.09	88.39	86.72	84.83	83.15	81.27	0	130.79
1600	83.79	85.39	85.25	84.86	84.97	85.52	86.31	86.89	87.07	87.61	88.62	89.77	91.42	92.3	90.65	89.07	88.85	87.76	86.25	84.68	83.02	80.78	0	130.87
2000	83.52	84.44	84.72	84.8	85.04	85.68	86.18	86.48	86.63	87.27	88.44	89.67	91.19	92.8	90.67	88.76	88.17	87.35	85.7	83.72	81.91	79.77	0	130.67
2500	81.67	83.1	83.66	84	84.2	84.68	85.33	86.02	86.35	86.69	87.95	88.96	90.51	91.85	90.31	88.21	87.29	86.46	84.7	82.69	80.5	78.12	0	129.97
3200	80.37	81.69	82.36	82.87	83.29	83.69	84.55	85.23	85.71	86.39	86.97	87.75	89.18	90.78	89.18	87.06	86.35	85.41	84.01	81.65	79.17	76.94	0	128.95
4000	79.39	80.77	81.28	81.66	81.86	82.49	83.66	84.22	84.65	85.06	85.95	86.86	87.79	88.78	87.69	86.2	84.87	84.12	82.53	80.03	77.6	75.19	0	127.67
5000	78.11	79.41	79.63	79.92	79.97	80.63	82.18	83.06	83.48	83.65	84.6	85.38	85.9	86.44	85.89	84.47	83.44	83.01	81.59	78.32	75	73.22	0	126.02
6300	76.57	78.01	78.32	78.6	78.84	79.69	81.06	82.19	82.71	82.88	83.21	83.93	84.51	84.78	83.87	82.64	81.65	81.59	80.3	75.7	72.43	71.19	0	124.64
8000	75.15	76.65	77.14	77.41	77.72	78.85	80.12	81.24	81.92	82.06	82.53	83.08	83.28	83.26	82.33	81.12	80.4	81.03	79.62	73.72	69.48	68.87	0	123.56
10000	72	73.14	73.98	74.99	75.9	76.63	77.32	78.62	79.44	79.13	79.68	79.55	79.77	80.15	79.98	78.51	77.3	78.12	76.48	70.54	65.73	65.06	0	120.69
OASPL	94.72	95.76	96.14	96.34	96.8	97.07	97.67	98.26	98.75	99.39	100.18	100.94	101.98	103.21	103.08	103.13	104.31	105.17	105.68	106.04	106.04	105.42	0	144.39

NASA Lewis Allison AST Jet Noise Test 1996

rdg	339
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	927.44
m01	0.00262
pamb	14.3432
tamb	499.414
rhumid	65.53
winds1	0
nprc	1.541
nprb	1.614
ptc	22.1029
ptb	23.1499
wactc	2.883
wactb	16.053
ttc	1303.19
ttb	497.781
ptmix	22.9905
ttmix	620.404
mixpnd	0.759459
grsvisp	17562
badchan	(26)
bkgnd	331
escdate	02.Dec.96
esctime	17:50:10
DADSdate	97.08.18
DADStime	17:50:10
bichdate	02.Dec.96
bichtime	17:50:10

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:30:52 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.71	57.95	58.77	59.34	59.86	60.46	61.13	61.82	62.48	63.07	63.53	63.87	64.22	64.75	65.6	66.92	68.84	70.72	71.79	72.36	72.25	70.82	0	133.45
100	57.46	58.61	59.57	60.37	61.04	61.61	62.1	62.53	62.93	63.31	63.72	64.2	64.88	65.86	67.19	68.83	70.67	72.46	73.62	73.59	72.2	69.58	0	134.24
130	58.78	59.78	60.45	60.87	61.09	61.2	61.27	61.36	61.54	61.88	62.45	63.3	64.41	65.74	67.24	68.83	70.35	71.48	71.92	71.7	70.26	67.34	0	132.9
160	59.57	60.58	61.19	61.67	62.32	63.27	64.14	64.38	64.73	65.92	66.56	65.84	65.94	67.31	68.38	69.22	70.06	71.13	71.86	71.17	69.69	67.15	0	133.12
200	59.87	61.17	62.19	62.85	63.11	63.29	64.06	65.04	65.69	65.96	66.11	66.58	67.57	68.18	68.12	68.59	69.41	69.5	68.82	67.49	65.36	62.14	0	131.53
250	59.35	60.47	61.32	61.97	62.45	62.82	63.29	64.06	64.77	65.39	66.73	67.7	67.99	68.41	68.58	69.35	71.24	70.95	69.06	67.1	64.49	60.74	0	131.88
320	59.92	60.8	61.56	62.31	63.18	63.88	64.01	64.55	65.06	65.43	65.78	66.4	67.33	67.9	68.33	68.73	69.75	69.48	67.87	65.39	61.81	57.73	0	130.95
400	58.65	60.03	61.08	61.95	62.76	63.65	64.58	65.18	65.91	66.97	67.23	67.83	67.3	68.76	69.18	68.49	68.42	67.3	65.06	62.39	59.25	55.53	0	130.48
500	58.83	60.01	60.94	61.75	62.46	63.02	63.42	64	64.79	65.77	66.24	66.25	66.73	67.94	68.1	67.37	67.51	66.29	63.66	60.41	56.96	52.46	0	129.43
630	58.38	59.75	60.86	61.42	62.3	63.31	64.01	64.56	65.1	65.66	66.13	66.43	66.61	67.31	67.56	66.54	66.27	64.48	61.53	58.18	54.46	49.76	0	128.83
800	58.38	60.11	61.1	61.75	62.42	63.03	63.43	64.27	64.49	64.8	65.58	65.9	66.56	66.98	66.45	65.27	64.48	62.95	59.8	56.71	52.79	47.37	0	128.09
1000	58.39	60.63	61.74	62.16	62.35	62.76	63.33	63.7	64.23	64.79	65.4	65.91	66.46	67.22	65.76	64.32	63.59	61.52	58.29	54.61	50.33	44.9	0	127.74
1300	58.19	60.43	61.12	61.33	61.76	62.45	63.07	63.62	64.12	64.75	65.08	65.2	66.42	67.26	65.16	62.86	61.64	59.63	56.34	52.41	48.06	42.47	0	127.19
1600	57.58	59.92	60.38	60.49	60.93	61.71	62.64	63.28	63.42	63.81	64.57	65.36	66.55	66.82	64.44	61.94	60.56	58.12	54.89	51.12	46.55	40.27	0	126.64
2000	56.47	58.17	59.06	59.66	60.26	61.06	61.81	62.17	62.27	62.77	63.66	64.53	65.54	66.3	63.58	60.7	58.89	56.57	53.03	48.65	43.64	37.02	0	125.66
2500	53.39	55.69	56.94	57.82	58.42	59.18	60.01	60.75	61.02	61.2	62.18	62.76	63.8	64.43	62.03	58.86	56.6	54.11	50.26	45.6	39.84	32.43	0	123.86
3200	50.28	52.59	54.04	55.24	56.02	56.74	57.79	58.53	58.93	59.41	59.69	60.05	60.87	61.68	59.09	55.76	53.58	50.77	46.99	41.58	34.97	26.84	0	121.25
4000	46.53	49.07	50.5	51.57	52.3	53.29	54.66	55.3	55.66	55.85	56.39	56.75	57.01	57.15	55.13	52	48.92	45.82	41.56	35.39	27.99	15.56	0	117.54
5000	41.17	43.78	45.06	46.21	46.69	48.17	49.79	50.72	51.1	51.23	51.53	51.66	51.4	50.84	48.7	45.78	42.6	39.39	34.5	26.76	13.37	0	0	112.2
6300	32.97	36.11	37.76	39.1	40.18	41.59	43.25	44.42	44.8	44.72	44.54	44.42	43.96	42.92	40.26	36.87	33.11	29.44	22.9	0	0	0	0	105.07
8000	19.87	24.75	27.43	29.25	30.56	32.24	34.16	35.42	35.93	35.61	35.42	35.05	33.82	31.95	28.8	24.02	18.08	0	0	0	0	0	0	95.42
10000	0	0	0	0	0	10.78	18.14	19.13	20.07	18.39	17.82	18.04	10.7	0	0	0	0	0	0	0	0	0	0	78.98
OASPL	70.46	71.83	72.81	73.42	73.99	74.62	75.24	75.82	76.3	76.9	77.46	77.89	78.46	79.26	79.1	79.06	79.91	80.21	80.02	79.39	78	75.55	0	142.76
PNL	78.55	80.35	81.33	82.06	82.68	83.44	84.25	84.92	85.31	85.7	86.4	86.89	87.63	86.28	86.84	85.06	84.87	84.06	82.07	79.95	77.25	73.44	0	86.28

NASA Lewis Allison AST Jet Noise Test 1996

rdg	341
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	988.12
m01	0.0027
pamb	14.3445
tamb	499.245
rhumid	69.65
winds1	0
nprc	1.743
nprb	1.824
ptc	25.0025
ptb	26.1644
wactc	3.32
wactb	18.327
ttc	1398.77
ttb	501.172
ptmix	25.9862
ttmix	638.836
mixpnd	0.798197
grsvixp	21411.5
badchan	(26)
bkgnd	331
ascdate	02.Dec.96
asctime	18:01:32
DADSdate	97.08.18
DADStime	18:01:32
blchdate	02.Dec.96
blchtime	18:01:32

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 10:33:29 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	80.82	81.93	83.13	84.21	84.98	85.3	85.3	85.15	85.03	85.1	85.55
100	82.53	83.56	84.51	85.3	85.84	86.12	86.33	86.68	87.24	87.9	88.45
130	84.85	85.47	85.87	86.09	86.19	86.23	86.27	86.36	86.56	86.93	87.52
160	86.94	87.42	87.24	86.94	86.85	87.11	87.63	88.17	88.54	88.95	89.64
200	86.34	86.9	87.27	87.54	87.78	88.06	88.39	88.81	89.31	89.82	90.29
250	86.12	86.54	86.8	86.97	87.11	87.3	87.86	88.29	89.07	89.78	90.68
320	86.34	86.6	86.81	87.04	87.37	87.84	88.36	88.82	89.09	89.59	90.64
400	85.41	85.66	85.95	86.37	86.99	87.63	88.58	89.3	89.91	90.53	91.67
500	86.34	86.69	86.94	87.17	87.45	87.96	88.4	89.02	89.78	90.71	91.4
630	86.3	86.92	87.27	87.53	87.86	88.41	89.07	89.39	89.75	90.38	91.19
800	86.88	87.42	87.63	87.73	87.94	88.39	89.05	89.48	89.78	90.62	91.69
1000	87.1	88.13	88.35	88.32	88.55	88.96	89.3	89.73	90.41	91.21	92.21
1300	87.1	88.02	88.42	88.54	88.68	88.93	89.33	89.71	90.34	91.3	92.38
1600	87.6	88.69	89.03	89.24	89.31	89.33	89.62	90.09	90.54	91.3	92.86
2000	87.98	89.21	89.6	89.62	89.59	89.64	89.81	89.98	90.33	91.25	93.02
2500	87.68	88.58	89.05	89.5	89.61	89.78	90.1	90.28	90.52	91.26	92.78
3200	87.46	88.51	88.97	89.4	89.4	89.46	89.83	89.98	90.31	91.04	92.55
4000	86.69	87.99	88.53	88.94	88.79	89.09	89.88	89.7	89.86	90.54	92.12
5000	85.65	87.24	87.72	87.82	87.54	88.04	89.15	89.2	89.18	89.88	91.71
6300	84.45	85.89	86.44	86.78	86.7	87.23	88.27	88.58	88.82	89.5	90.83
8000	83.19	84.78	85.29	85.67	85.64	86.42	87.78	88.07	88.24	88.96	90.81
10000	79.92	81.03	81.81	82.89	83.64	84.26	84.72	85.08	85.42	86	87.89
OASPL	99.47	100.34	100.72	100.98	101.12	101.44	101.85	102.27	102.67	103.37	104.58

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	86.48	87.85	89.59	91.64	93.92	96.37	98.83	101.02	102.64	103.42	103.13	0	137.32
100	88.83	89.43	90.68	92.77	95.45	98.4	101.24	103.39	104.35	104.23	103.7	0	138.91
130	88.38	89.53	90.98	92.73	94.8	97.18	99.79	102.34	104.46	105.27	103.88	0	138.72
160	90.7	92.01	93.39	94.79	96.39	98.34	100.54	102.34	103.03	103.6	103.91	0	138.89
200	90.76	91.56	93	94.87	96.77	98.65	99.8	100.3	100.55	99.85	99.39	0	137.24
250	91.92	93.07	94.49	96.28	97.97	99.45	100	99.51	98.76	97.78	96.11	0	137.1
320	90.9	91.95	93.96	95.42	96.99	98.39	98.24	98.22	97.88	96.3	94.95	0	136.17
400	92.66	93.46	94.87	96.21	96.34	96.69	96.8	95.56	94.67	93.33	91.61	0	135.49
500	91.82	93.03	94.63	95.31	96.29	96.77	95.77	94.81	93.81	92.05	90.3	0	135.11
630	92.27	93.15	94.29	95.17	95.69	95.91	95.12	93.67	91.85	90.06	88.23	0	134.74
800	92.77	93.78	94.58	94.89	94.86	94.96	94.38	92.49	90.64	89.11	87.51	0	134.54
1000	93.14	94.57	95.02	94.26	94.23	94.1	93.31	91.9	90.16	88.16	86.57	0	134.58
1300	93.59	95.5	95.71	93.56	93.43	92.85	91.87	90.71	89.22	87.59	86.19	0	134.51
1600	94.45	96.68	96.57	93.96	93.06	92.53	91.32	89.83	88.27	87.19	86.09	0	134.94
2000	94.84	97.04	97.47	94.14	92.67	92.04	91.08	89.65	88.21	86.68	85.23	0	135.19
2500	94.82	97.29	97.44	94.13	92.73	91.69	90.49	89.03	87.31	85.68	84.2	0	135.15
3200	94.53	96.87	97.54	94.37	92.47	91.44	89.99	88.21	86.18	84.21	82.56	0	134.95
4000	94.28	96.23	96.51	93.54	91.86	90.45	89.02	87.04	84.75	82.64	81.13	0	134.31
5000	93.64	95.27	95.36	92.7	90.89	89.17	87.68	85.99	83.41	80.77	79.23	0	133.42
6300	92.85	94.57	94.8	92.08	89.52	87.78	86.48	85.05	81.96	78.65	77.49	0	132.82
8000	92.73	94.1	93.86	91.07	88.93	87.06	85.74	84.32	80.71	77.3	76.56	0	132.01
10000	89.42	91.15	91.34	89.27	87	84.57	82.83	80.94	77.55	74.59	73.62	0	129.26
OASPL	105.98	107.66	108.28	107.5	107.91	108.86	109.7	110.55	111.19	111.27	110.61	0	149.18

NASA Lewis Allison AST Jet Noise Test 1996

rdg	341
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	989.12
m01	0.0027
pamb	14.3445
tamb	499.245
rhumid	89.65
winds1	0
nprc	1.743
nprb	1.824
ptc	25.0025
ptb	26.1644
wactc	3.32
wactb	18.327
ttc	1398.77
ttb	501.172
ptmix	25.9862
ttmix	638.836
mixpnd	0.798197
grsvixp	21411.5
badchan	(26)
bkgnd	331
escdate	02.Dec.96
esctime	18:01:32
DADSdate	97.08.18
DADStime	18:01:32
btchdate	02.Dec.96
btchtime	18:01:32

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:33:38 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	59.03	60.63	62.23	63.63	64.63	65.12	65.22	65.11	64.95	64.93	65.21	65.89
100	60.71	62.22	63.57	64.69	65.47	65.91	66.22	66.61	67.14	67.69	68.07	68.22
130	62.98	64.09	64.89	65.42	65.77	65.98	66.12	66.25	66.41	66.68	67.1	67.71
160	64.98	65.98	66.18	66.21	66.36	66.8	67.42	67.99	68.32	68.64	69.15	69.97
200	64.27	65.32	66.1	66.7	67.19	67.64	68.09	68.54	69	69.41	69.7	69.92
250	63.86	64.79	65.47	65.97	66.37	66.74	67.2	67.96	68.61	69.19	69.94	70.92
320	63.83	64.63	65.27	65.84	66.44	67.09	67.72	68.21	68.44	68.83	69.7	69.71
400	62.55	63.35	64.08	64.85	65.75	66.77	67.64	68.39	68.97	69.48	70.42	71.15
500	63.04	63.97	64.68	65.29	65.85	66.45	67.11	67.76	68.48	69.29	69.79	69.94
630	62.48	63.71	64.55	65.21	65.63	66.59	67.36	67.74	68.05	68.57	69.17	69.96
800	62.52	63.7	64.42	64.93	65.45	66.12	66.91	67.38	67.81	68.35	69.21	69.98
1000	62.18	63.87	64.64	65.04	65.6	66.23	66.7	67.18	67.82	68.48	69.25	69.85
1300	61.57	63.19	64.15	64.72	65.2	65.7	66.24	66.66	67.23	68.07	68.91	69.79
1600	61.37	63.22	64.16	64.83	65.26	65.52	65.97	66.48	66.89	67.49	68.81	70.06
2000	60.89	62.9	63.94	64.46	64.81	65.12	65.44	65.66	65.96	66.72	68.24	69.68
2500	59.37	61.15	62.31	63.29	63.81	64.27	64.76	64.99	65.18	65.75	67	68.62
3200	57.35	59.37	60.61	61.63	62.11	62.5	63.03	63.23	63.51	64.06	65.26	66.78
4000	53.85	56.27	57.73	58.85	59.22	59.88	60.86	60.76	60.84	61.32	62.52	64.15
5000	48.66	51.57	53.13	54.07	54.42	55.4	56.79	56.84	56.72	57.17	58.81	59.92
6300	40.79	43.97	45.86	47.29	48.04	49.09	50.36	50.81	50.97	51.3	52.08	53.05
8000	29.52	33.53	35.79	37.5	38.51	40	41.71	42.25	42.29	42.54	43.39	44.56
10000	0	2.82	16.31	20.67	23.24	25.25	26.6	27.29	27.46	27.35	28.29	28.65
OASPL	74.69	75.95	76.77	77.4	77.92	78.45	78.99	79.42	79.84	80.38	81.15	81.91
PNL	83.49	85.18	86.24	87.06	87.61	88.15	88.75	89.08	89.38	89.95	91	92.2

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	66.95	68.29	69.86	71.55	73.3	74.92	76.12	76.53	75.84	73.68	0	137.23
100	68.5	69.35	70.95	73.04	75.29	77.26	78.43	78.19	76.58	74.18	0	138.77
130	68.54	69.59	70.86	72.33	74.01	75.77	77.3	78.2	77.5	74.2	0	138.48
160	70.95	71.93	72.83	73.83	75.07	76.41	77.18	76.64	75.68	74.04	0	138.35
200	70.4	71.42	72.79	74.08	75.24	75.51	74.97	73.95	71.69	69.23	0	136.78
250	71.74	72.74	74.01	75.09	75.82	75.48	73.92	71.86	69.24	65.46	0	136.45
320	70.41	71.98	72.92	73.86	74.49	73.41	72.27	70.56	67.25	63.73	0	135.25
400	71.58	72.55	73.34	72.8	72.37	71.51	69.11	66.78	63.63	59.52	0	134.28
500	70.77	71.91	72.02	72.31	71.98	69.94	67.71	65.18	61.46	57.1	0	133.44
630	70.46	71.1	71.39	71.16	70.48	68.6	65.81	62.32	58.41	53.71	0	132.81
800	70.59	70.86	70.53	69.53	68.87	67.14	63.85	60.21	56.38	51.64	0	131.9
1000	70.85	70.77	69.35	68.5	67.37	65.36	62.43	58.76	54.28	49.28	0	131.47
1300	71.25	70.89	68.04	67.05	65.4	63.11	60.32	56.79	52.5	47.38	0	130.86
1600	71.8	71.08	67.74	65.93	64.26	61.67	58.23	54.68	50.69	45.53	0	130.73
2000	71.39	71.16	67.03	64.59	62.76	60.29	56.99	53.14	48.41	42.47	0	130.19
2500	70.55	70.01	65.82	63.33	60.99	58.16	54.63	50.24	45.03	38.48	0	129.06
3200	68.53	68.43	64.27	61.16	58.62	55.29	51.13	46.06	39.98	32.43	0	127.27
4000	65.46	64.65	60.72	57.41	54.44	50.82	46.06	40.1	32.97	24.08	0	124.24
5000	60.72	59.7	55.63	51.9	48.23	44.01	38.82	31.8	22.44	0	0	119.65
6300	53.94	52.86	48.35	43.61	39.1	34.32	28.34	16.71	0	0	0	112.98
8000	44.52	42.48	37.32	32.23	26.45	19	0	0	0	0	0	103.73
10000	28.42	25.69	18.54	0	0	0	0	0	0	0	0	87.96
OASPL	82.91	83.39	83.3	83.79	84.47	84.64	84.97	84.58	83.24	80.69	0	147.33
PNL	93.62	93.52	91.11	89.84	89.61	88.7	87.12	85.55	83.29	79.94	0	91.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	345
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	MD20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	574.43
m01	0.20048
pamb	14.306
tamb	497.488
rhumid	71.92
winds1	0
nprc	1.17
nprb	1.215
ptc	16.7404
ptb	17.3842
wactc	1.637
wactb	9.445
ttc	1121.99
ttb	505.629
ptmix	17.2891
ttmix	596.676
mixpnd	0.479649
grsvixp	6365.63
badchan	(25)
bkgnd	332
escdate	02.Dec.96
esctime	18:44:00
DADSdate	02.Dec.96
DADStime	18:44:00
btchdate	02.Dec.96
btchtime	18:44:00

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 03:07:18 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	61.01	62.31	62.89	62.69	62.94	64.53	64.81	65.82	65.95	66.22	66.56	66.12	66.67	66.71	66.23	67.22	68.28	108.38
100	54.8	59.25	59.48	59.98	59.99	58.83	59.28	60.62	61.89	62.02	62.88	62.97	63.4	63.99	64.32	64.57	65.33	66.54	67.27	67.12	66.7	67.15	68.2	106.17
130	58.13	58.83	59.49	59.91	60.4	60.59	60.89	60.97	61.32	61.83	62.32	63.05	63.74	64.42	64.8	64.98	65.4	66.13	66.84	67.34	67.57	67.88	67.84	106.35
160	57.03	58.8	59.05	59.75	60.14	60.41	60.68	61.01	61.64	62.35	63.2	64.34	64.83	64.88	65.47	65.99	66.14	66.38	66.75	66.65	66.23	66.44	66.71	108.54
200	58.97	61.04	63.14	63.15	64.64	63.52	64.24	64.24	64.6	64.98	66.19	67.12	67.77	68.73	69.18	69.31	69.25	69	69.06	68.44	67.38	67.12	66.93	109.46
250	65.01	67.4	68.56	69.05	69.34	69.43	69.62	69.91	70.36	70.97	71.74	72.52	73.3	73.95	74.48	74.78	74.86	74.66	74.14	73.28	72.19	71.07	70.13	114.87
320	64.84	66.18	67.07	67.65	68.04	68.33	68.59	68.88	69.25	69.7	70.25	70.85	71.5	72.17	72.86	73.45	73.77	73.68	73.01	71.39	69.21	67.21	62.86	113.42
400	63.74	65.83	66.89	67.3	67.59	68.27	69.26	69.72	70.15	70.8	71.56	72.23	72.63	73.06	73.28	73.07	72.5	71.56	70.28	68.56	66.78	65.8	60.84	113.42
500	64.02	65.93	67.01	67.57	67.92	68.32	68.82	69.13	69.59	70.21	70.9	71.59	72.25	72.85	73.3	73.45	73.12	72.2	70.74	68.94	67.23	66.02	61.46	113.34
630	64.86	67.54	68.56	69	69.51	70.06	70.53	70.85	71.09	71.44	72	72.8	73.2	73.59	73.85	73.71	72.94	71.57	69.78	67.95	66.39	65.45	65.14	114.14
800	65.25	67.16	67.7	67.94	68.39	68.94	69.42	69.84	70.29	70.83	71.55	72.39	73.19	73.74	73.84	73.28	72	70.13	67.92	65.78	64.06	63.15	62.66	113.55
1000	64.58	66.31	66.72	67.06	67.81	68.73	69.61	70.21	70.67	71.17	71.64	72.25	72.72	72.75	72.8	72.44	71.21	69.26	67.06	64.83	62.96	62.3	62.8	113.12
1300	62.9	64.41	65.29	65.96	66.74	67.63	68.29	68.61	68.86	69.06	69.36	69.86	70.48	71.23	71.69	71.31	69.91	67.86	65.65	63.83	62.08	61.41	62.24	111.5
1600	61.55	63.27	63.86	64.26	65.07	66.02	66.75	67.13	67.33	67.44	67.8	68.55	69.18	70.03	70.58	70.23	69.07	67.41	65.49	63.36	61.58	60.79	61.26	110.23
2000	60.47	62.13	62.63	62.98	63.77	64.78	65.45	65.63	65.67	65.77	66.14	66.92	67.84	68.76	69.02	68.49	67.07	65.15	63.43	61.57	59.6	58.64	59.02	108.67
2500	59.36	60.7	61.3	61.9	62.8	63.86	64.32	64.66	64.78	64.95	65.4	66.01	66.67	67.65	67.6	67.04	65.82	63.35	61.24	59.21	57.47	57.09	57.92	107.5
3200	59.09	60.6	61.27	61.93	62.92	64	64.82	65.04	65.18	65.06	65.13	65.89	66.42	66.96	66.9	66.04	64.47	62.4	60.23	58.23	56.71	56.04	56.3	107.24
4000	58.46	60.33	61.19	62.02	63.05	63.94	64.92	65.1	65.35	65.05	65.17	66.07	65.94	65.98	65.79	64.89	63.33	61.4	59.29	57.22	55.53	54.59	54.87	106.91
5000	57.88	60.11	61.28	62.16	63.07	64.36	65.3	65.83	66.16	65.96	66.14	66.9	66.82	66.49	65.83	64.52	62.9	61.07	59.19	57.29	55.67	54.72	54.78	107.36
6300	57.88	60.39	62.07	63.03	63.69	65.1	66.31	66.97	67.41	67.05	66.77	67.68	67.47	67.24	66.56	65.12	63.24	61.27	59.47	57.75	56.28	55.48	55.17	106.18
8000	58.27	61.51	63.09	63.81	64.36	66.09	67.29	67.84	68.56	68.06	68.19	69.06	68.74	68.19	67.2	65.73	64.03	62.31	60.61	59.07	57.76	56.7	55.96	109.22
10000	58.06	60.25	61.65	62.94	64.18	65.6	65.79	66.16	66.95	66.45	66.74	66.89	66.72	66.58	66.05	64.95	63.22	61.09	59.33	57.81	56.36	55.18	54.52	107.8
OASPL	75.06	77.05	77.97	78.49	79.07	79.71	80.39	80.79	81.19	81.46	81.97	82.69	83.19	83.66	83.89	83.73	83.14	82.23	81.25	80.03	78.77	78.12	77.58	124.24

NASA Lewis Allison AST Jet Noise Test 1996

rdg	345
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	MD20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	574.43
m01	0.20048
pamb	14.308
tamb	497.488
rhumid	71.92
winds1	0
nprc	1.17
nprb	1.215
ptc	16.7404
ptb	17.3842
wactc	1.637
wactb	9.445
ttc	1121.99
ttb	505.629
ptmix	17.2891
ttmix	596.676
mixpnd	0.479649
grsvixp	6365.83
badchan	(25)
bkgnd	332
escdate	02.Dec.96
esctime	18:44:00
DADSdate	02.Dec.96
DADStime	18:44:00
btchdate	02.Dec.96
btchtime	18:44:00

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 03:07:23 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	38.06	37.52	37.28	37.87	37.9	39.82	42.27	41.01	42.82	42.05	42.66	42.91	42.01	41.04	42.74	42.18	41.7	41.46	40.56	38.66	36.62	34.5	105.73
100	35.66	36.49	39.29	39.36	39.99	39.33	40.8	40.55	41.01	40.25	40.57	42.57	42.62	42.89	42.22	41.3	43.49	43.27	42.46	41.01	39.13	37.22	35.15	106.09
130	37.08	36.97	36.71	38.88	39.64	39.68	40.63	40.85	40.95	42.05	41.6	42.5	42.37	44.32	43.61	42.62	41.97	41.78	42.55	41.51	39.88	38.08	35.08	106.3
160	31.79	36.77	39.83	40.1	43.2	42.2	44.08	40.84	40.82	42.7	43.13	43.59	44.64	44.23	44.22	44.01	44.82	43.48	42.16	39.77	38.48	38.55	34.16	107.2
200	38.9	40.9	44.63	45.11	47.54	47.27	49.22	43.96	43.81	44.65	45.68	47.16	47.81	48.11	48.62	47.88	48.89	47.63	46.17	44.07	41.33	40.29	37.11	110.97
250	43.9	46.24	47.71	48.38	48.42	48.65	48.56	49.46	50.97	51.3	52.38	52.63	53.08	53.08	53.09	52.51	52.11	50.71	48.73	46.39	42.74	38.3	32.29	114.91
320	41.53	42.99	44.32	45.16	46.09	47.1	48.06	48.28	48.03	48.32	48.04	48.57	48.84	49.09	49.67	49.21	48.69	46.91	45.04	41.59	38.17	34.94	22.64	111.56
400	40.79	43.6	45	45.61	46	46.52	47.33	48.8	49.32	49.85	50.49	50.85	50.76	50.79	50.38	49.84	48.35	46.78	43.96	41.05	37.63	34.09	27.74	112.35
500	40.54	43.94	45.85	47	47.71	48.31	49.8	47.86	48.52	49.37	50.05	50.41	50.61	50.38	49.86	49.27	48.08	45.75	43.01	39.62	35.83	32.08	28.23	112.16
630	40.61	43.28	44.54	45.16	46.1	46.93	47.53	49.21	49.31	49.75	50.13	50.52	50.93	51.15	50.68	49.35	47.2	44.48	41.03	37.16	33.45	29.48	25.19	112.05
800	40.06	42.42	43.09	43.74	44.69	45.9	46.94	47.77	48.01	47.93	48.4	49.05	49.2	49.13	48.54	47.37	45.45	42.51	38.96	35.02	30.75	26.69	22.27	110.39
1000	38.57	40.6	41.73	42.62	43.69	44.57	45.24	47.65	47.96	48.23	48.29	48.23	48.36	47.94	47.49	46.23	43.61	40.17	36.38	32.38	28.18	24.41	20.38	109.51
1300	36.03	38.47	39.76	40.57	41.46	42.56	43.27	45.57	45.72	45.73	45.72	45.73	45.6	45.57	45.54	44.38	42.11	39.05	35.54	31.45	27.01	22.38	16.6	107.32
1600	33.77	36.32	37.47	38.22	39.23	40.45	41.22	43.55	43.62	43.41	43.4	43.84	43.84	44.05	43.61	42.27	39.77	36.43	32.87	28.63	23.7	18.47	0	105.25
2000	31.65	33.74	34.89	36	37.29	38.45	39.08	41.35	41.25	41.13	41.19	41.49	41.83	42.09	41.41	39.75	37.03	33.14	29.34	25.02	19.69	2.63	0	102.97
2500	29.15	31.53	32.76	33.96	35.49	36.81	37.93	39.38	39.47	39.45	39.49	38.79	39.9	40.05	39.05	37.13	34.4	30.46	26.14	21.34	5.66	0	0	101
3200	25.82	28.59	30.14	31.61	33.19	34.59	35.74	38.3	38.35	38.03	37.87	36	37.83	37.5	36.39	34.34	31.11	27.1	22.59	11.23	0	0	0	98.96
4000	19.66	24.24	26.41	28.1	29.77	31.54	32.73	36.09	36.39	35.99	35.7	36.36	35.34	34.36	32.85	30.38	27.16	23.01	8.92	0	0	0	0	96.32
5000	0	7.61	17.93	21.6	24.17	26.37	28	33.39	33.71	33.35	33.12	33.2	32.33	31.16	29.2	26.11	20.94	0	0	0	0	0	0	92.97
6300	0	0	0	0	0	12.97	17.44	29.05	29.54	28.93	28.34	28.72	27.44	25.79	22.37	14.33	0	0	0	0	0	0	0	87.78
8000	0	0	0	0	0	0	0	19.64	20.57	19.07	18	18.61	14.87	0	0	0	0	0	0	0	0	0	0	77.38
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	50.73	53.26	54.75	55.49	56.44	56.94	57.8	58.24	58.62	59.01	59.46	59.89	60.13	60.17	59.94	59.17	58.12	56.59	54.64	52.19	49.33	46.76	43.14	121.99
PNL	56.61	59.34	60.95	61.98	63.04	63.9	64.82	65.25	65.46	65.65	65.96	66.39	66.42	66.39	65.84	64.82	62.89	60.5	57.58	53.95	49.24	44.1	37.42	66.01

NASA Lewis Allison AST Jet Noise Test 1996

rdg 344
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
nairbld NATR full wedge
ngbld JER w/ external supplement
mbbld MD20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 819.63
m01 0.20003
pamb 14.3072
tamb 496.572
rhumid 76.04
winds1 0
nprc 1.395
nprb 1.441
ptc 19.9585
ptb 20.6167
wactc 2.669
wactb 13.325
ttc 1181.89
ttb 505.513
ptmix 20.5068
ttmix 618.384
mixpnd 0.672271
grsvixp 13109.2
badchan (26)
bkgnd 332
eacdate 02.Dec.96
eactime 18:32:42
DADSdate 97.08.20
DADStime 18:32:42
btchdate 02.Dec.96
btchtime 18:32:42
**Scenario: 150 foot arc; 77F, 70%; Full scale, Third-octave SPL
Processing date: Fri Aug 22 15:10:25 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	65.7	66.33	67.08	67.88	68.69	69.49	70.24	70.93	71.54	72.05	72.45	72.77
100	68.3	69.6	70.68	71.13	71.32	71.37	71.38	71.44	71.59	71.89	72.38	73.07
130	69.77	70.14	70.29	70.3	70.26	70.23	70.27	70.41	70.68	71.12	71.74	72.54
160	70.33	70.48	70.74	71.08	71.47	71.89	72.32	72.74	73.14	73.5	73.83	74.17
200	70.67	71.57	72.15	72.58	72.92	73.2	73.51	73.95	74.5	75.07	75.56	75.89
250	72.12	73	73.81	74.24	74.19	74.16	74.54	75.19	75.51	75.75	76.13	76.61
320	72.93	74.27	74.77	74.82	74.8	74.97	75.4	75.85	76.15	76.5	77.08	77.87
400	72.62	73.43	73.98	74.61	75.41	76.08	76.48	76.69	76.97	77.51	78.25	78.65
500	73.47	74.69	75.33	75.6	75.82	76.2	76.37	76.67	77.09	77.59	78.15	78.7
630	73.61	75.18	76.04	76.49	76.77	77.02	77.34	77.77	78.06	78.27	78.73	79.21
800	75.29	77.19	77.61	77.85	78.09	78.3	78.56	78.76	78.93	79.18	79.47	79.83
1000	76.38	77.77	77.77	78.35	78.37	78.47	78.73	79.08	79.34	79.65	80.14	80.6
1300	76.51	78.31	78.58	78.97	79.1	78.94	78.7	78.49	78.52	78.88	79.38	79.92
1600	77.36	78.94	79.25	79.32	79.06	78.46	77.93	77.83	77.95	78.34	79.25	80.42
2000	76.31	78.2	78.83	78.89	78.44	77.62	77.51	77.47	77.52	77.77	78.5	79.51
2500	74.2	75.73	76.33	76.79	76.7	76.43	76.39	76.42	76.4	76.55	77.18	78.1
3200	72.59	73.82	74.35	75.03	75.19	75.24	75.64	75.76	75.61	75.73	76.37	77.14
4000	71.85	72.69	73.31	74.08	74.29	74.49	75.12	75.08	74.92	74.97	75.51	76.15
5000	71.02	72.17	72.71	73.5	73.4	73.75	74.44	74.53	74.35	74.35	74.78	75.15
6300	70.31	71.86	72.38	73.09	73.07	73.53	74.42	74.87	74.85	74.51	74.17	74.5
8000	69.96	71.5	72.49	73.39	73.22	73.77	74.77	75.07	75.14	75.01	74.54	74.51
10000	68.66	69.4	70.26	71.86	72.56	72.99	73.12	73.44	73.57	73.22	72.41	71.58
OASPL	86.63	88.05	88.55	88.94	89	89.04	89.23	89.42	89.59	89.84	90.31	90.9

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.07	73.42	73.89	74.52	75.34	76.37	77.64	79.01	80.44	82.02	84.09	117.07
100	73.89	74.8	75.74	76.88	77.58	78.44	79.25	79.98	80.66	81.42	82.6	118.03
130	73.48	74.53	75.66	76.65	78.09	79.33	80.48	81.42	82.13	82.68	83.28	118.5
160	74.6	75.14	75.82	76.69	77.75	78.95	80.11	81.04	81.65	81.99	82.19	118.69
200	76.04	76.43	77.29	78.2	78.83	79.29	79.63	79.78	79.72	79.54	79.33	119.07
250	77.19	77.86	78.58	79.33	80.04	80.65	81.04	81.11	80.8	80.19	79.37	120.22
320	78.49	78.98	79.37	79.64	80	80.5	80.25	79.63	78.89	77.9	76.54	120.44
400	78.9	79.23	79.82	79.63	79.27	78.9	78.42	77.66	76.83	76.25	75.28	120.4
500	79.19	79.82	80.25	80.4	80.16	79.28	78.11	77.14	76.36	75.45	74.29	120.72
630	79.62	79.89	79.94	79.86	79.41	78.4	77.27	76	74.6	73.41	72.54	120.91
800	80.23	80.71	80.87	80.38	79.32	78.12	76.94	75.74	74.46	73.28	72.27	121.71
1000	80.84	81.04	81.13	80.28	78.78	77.43	76.16	74.67	73.11	71.87	71.17	121.97
1300	80.54	81.48	81.99	80.74	78.33	76.44	75.29	74.18	72.9	71.94	71.3	121.95
1600	81.47	82.38	82.72	81.51	79.12	77.01	75.52	74.2	72.86	71.78	71.12	122.24
2000	80.32	81.39	82.01	80.81	78.41	76.29	74.82	73.6	72.35	71.28	70.59	121.54
2500	79.03	80.04	80.69	79.53	77.07	75.05	73.62	72.54	71.1	70.05	69.62	120.08
3200	77.5	78.35	78.72	77.71	75.77	73.95	72.53	71.24	69.98	69.04	68.66	118.71
4000	76.29	76.7	76.66	75.53	73.91	72.48	71.35	70.07	68.71	67.81	67.57	117.55
5000	75.12	75.18	74.67	73.4	71.91	70.57	69.55	68.45	67.26	66.49	66.27	116.5
6300	74.61	74.54	73.66	72.01	70.24	68.88	67.93	67.11	66.28	65.62	65.3	116.1
8000	74.31	74.25	72.87	70.92	69.32	67.99	67.03	66.3	65.68	65.17	64.83	116.11
10000	71.49	72.42	71.2	69.04	67.2	65.47	64.34	63.61	63.02	62.56	62.33	114.32
OASPL	91.4	92.02	92.37	91.91	91.15	90.73	90.56	90.47	90.41	90.47	90.84	133.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg	344
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	819.63
m01	0.20003
pamb	14.3072
tamb	498.572
rhumid	76.04
winds1	0
nprc	1.395
nprb	1.441
ptc	19.9585
ptb	20.6167
wactc	2.669
wactb	13.325
ttc	1161.89
ttb	505.513
ptmix	20.5066
ttmix	618.384
mixpnd	0.672271
grsviop	13109.2
badchan	(26)
bkgnd	332
escdate	02.Dec.96
esctime	18:32:42
DADSdate	97.08.20
DADStime	18:32:42
bichdate	02.Dec.96
bichtime	18:32:42

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 15:10:36 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	44.49	48.4	48.61	49	49.13	49.18	51.72	50.89	49.66	52.83	52.57	52.37	52.22	52.15	52.14	54.83	54.38	53.9	53.24	52.49	51.54	50.44	49.34	117.14
100	45.5	48.54	49.46	49.74	49.84	49.05	50.43	51.36	50.61	49.92	49.73	52.18	52.52	52.62	52.49	52.29	54.88	55.05	55.12	54.89	54.2	52.99	51.15	117.95
130	46.3	48.25	48.19	50.3	50.57	50.83	52.25	50.29	50.33	52.26	52.18	52.14	52.37	53.97	54.01	54.02	54.03	54.34	55.64	55.33	54.48	52.92	50.62	118.33
160	48.42	50.4	51.07	51.52	52.78	52.66	53.44	52.56	52.42	53.62	53.62	53.64	54.78	54.47	54.71	54.96	55.72	55.31	54.51	53.47	51.87	50.36	47.4	118.49
200	49.24	49.73	51.29	51.58	52.97	53.07	54.27	53.67	53.88	54.54	54.53	54.89	54.49	54.47	55.23	55.21	54.99	55.62	54.87	53.89	51.96	50.22	48.91	118.78
250	50.53	52.62	54.15	54.68	54.37	54.69	56.2	54.75	56.3	56.12	56.96	56.96	57.66	57.65	57.86	57.33	57.51	57.08	55.78	54.2	51.65	48.06	43.43	120.51
320	49.66	50.88	51.82	52.69	53.95	54.95	55.29	55.25	55.11	55.47	55.22	55.81	56.09	56.14	56.55	56.03	55.35	53.74	52.55	50.35	48.03	45.55	41.45	118.86
400	49.85	51.51	52.82	53.44	53.94	54.39	55	55.78	56.09	56.48	57.17	57.23	56.69	56.96	57.02	56.69	55.33	54.17	51.84	49.69	47	43.65	39.42	119.33
500	49.51	51.57	52.83	53.93	54.58	55.14	55.48	55.4	55.93	56.46	56.87	57.16	57.43	57.22	56.52	55.75	54.7	52.44	50.25	47.53	44.27	40.38	35.62	119.06
630	50.15	52.61	53.85	54.51	55.33	55.83	56.4	56.12	56.42	56.84	57.09	57.16	57.01	56.94	56.62	55.6	53.69	51.51	49.06	46.06	42.75	38.76	33.72	119.18
800	50.86	53.44	54.07	54.81	55.25	55.87	56.12	56.65	56.81	56.74	56.97	57.34	57.24	57.16	56.52	55.14	53.29	50.96	48.14	44.89	40.99	36.48	30.96	119.19
1000	50.81	53.18	54.09	55.15	55.69	55.7	55.57	56.5	56.65	56.71	56.81	56.66	57.06	56.89	56.47	54.52	51.44	48.68	45.96	42.79	38.93	34.54	28.68	118.88
1300	50.84	53.24	54.07	54.75	54.99	54.75	54.31	55.44	55.4	55.72	55.99	56.23	56.62	57.13	56.98	54.92	51.47	48.13	45.27	41.94	37.92	33.09	26.62	118.44
1600	49.79	52.35	53.44	53.98	53.83	53.38	53.19	54.23	54.26	54.47	55.24	56.08	56.37	56.52	56.3	54.27	50.69	47	43.63	40.15	35.96	30.86	24.03	117.64
2000	47.1	49.57	50.78	51.39	51.37	51.23	51.15	53.16	53.12	53.17	53.57	54.05	54.37	54.81	54.63	52.26	48.45	44.81	41.52	37.86	33.51	27.95	20.24	115.74
2500	43.11	45.26	46.44	47.53	48.18	48.4	48.96	51.15	51.06	51.01	51.21	51.66	51.77	51.99	51.45	49.24	45.68	42.16	38.62	34.73	29.6	23.66	7.3	112.98
3200	39.14	41.27	42.87	44.3	44.94	45.39	46.16	49.07	48.8	48.63	48.95	49.15	48.75	48.59	47.92	45.66	42.23	38.69	34.93	30.52	25.02	14.07	0	110.07
4000	34.06	36.57	38.11	39.87	40.29	41.02	41.86	46.16	45.84	45.65	45.8	45.9	45.3	44.49	43.01	40.39	37.1	33.46	29.56	24.42	13.38	0	0	106.3
5000	26.65	29.4	31.55	33.27	34.18	35.21	36.41	42.16	41.89	41.65	41.51	41.16	40.26	39.21	37.17	33.93	30.15	25.98	19.97	0	0	0	0	101.4
6300	-2.49	15.89	20.88	24.04	25.05	26.63	28.46	37	36.99	36.47	35.63	35.15	34.28	32.81	30.08	25.83	19.74	0	0	0	0	0	0	95.35
8000	0	0	0	0	0	0	0	29.04	29.04	28.53	27.27	28.01	23.87	21.63	14.09	0	0	0	0	0	0	0	0	86.26
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	61.23	63.25	64.31	65.06	65.55	65.76	66.24	66.58	66.75	67.13	67.41	67.69	67.65	67.93	67.81	67	66.08	65.1	64.11	62.66	61.26	59.41	56.9	130.53
PNL	70.47	72.79	73.87	74.74	75.01	75	75.27	75.48	75.5	75.67	75.96	76.3	76.42	76.54	76.2	74.45	71.93	69.6	67.55	65.12	62.03	58.15	53.26	76.46

NASA Lewis Allison AST Jet Noise Test 1996

rdg	343
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	937.36
m01	0.20027
pamb	14.307
tamb	498.526
rhumid	73.46
winds1	0
nprc	1.547
nprb	1.813
ptc	22.1329
ptb	23.0772
wactc	2.895
wactb	15.73
ttc	1324.84
ttb	504.701
ptmix	22.9304
ttmix	632.18
mixpnd	0.760416
grsvixp	17456.7
badchan	(26)
bkgnd	332
escdate	02.Dec.96
esctime	18:18:41
DADSdate	97.08.18
DADStime	18:18:41
bichdate	02.Dec.96
bichtime	18:18:41

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 10:22:27 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100
roll angle (	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100
80	72.44	73.7	74.53	75.08	75.38	75.55	75.68	75.84	76.06	76.38
100	73.67	74.44	75.03	75.68	76.58	77.5	77.11	76.6	76.64	77.09
130	75.81	76.2	76.12	75.83	75.52	75.3	75.22	75.29	75.54	76.02
160	77.12	78.03	77.83	77.26	76.8	76.81	77.33	78.02	78.67	79.32
200	76.34	77.1	77.61	77.84	78.13	78.21	78.3	78.5	78.9	79.57
250	77.53	78.12	78.32	78.3	78.33	78.55	78.98	79.53	79.88	80.12
320	78.09	79.52	79.39	79.24	79.48	79.73	79.94	80.14	80.27	80.58
400	78.04	78.25	78.51	78.98	79.71	80.47	80.71	80.98	81.59	82.37
500	78.53	80.14	80.43	80.13	80	80.39	81.09	81.55	81.67	82.01
630	78.8	80.63	81	81.04	81.46	81.66	81.82	82.31	82.74	83.01
800	80.87	82.5	82.34	82.15	82.26	82.44	82.42	82.83	83.34	83.49
1000	82.84	84.47	83.57	83.74	83.37	83.08	83.1	83.46	83.62	83.85
1300	85.45	85.29	84.89	84.78	84.24	83.57	83.33	83.61	84.07	84.35
1600	84.17	84.78	84.61	84.12	83.84	83.75	83.91	84.13	84.28	84.56
2000	85.02	84.09	84.23	84.35	84.36	84.08	83.88	83.91	84.05	84.56
2500	81.33	81.86	82.62	83.39	83.33	82.7	83	83.55	83.89	83.64
3200	79.11	80.29	81.18	81.84	81.93	81.79	82.27	82.54	82.79	83.19
4000	77.93	78.98	79.76	80.47	80.38	80.31	81.32	81.46	81.8	81.98
5000	76.03	77.91	78.71	79.04	78.62	78.86	80.15	80.57	80.4	80.8
6300	75.05	76.69	77.54	77.98	77.82	77.99	79.55	80.01	80.04	80.2
8000	74.04	75.51	76.49	77.31	77.22	77.27	79.45	79.84	79.64	79.67
10000	72	72.4	73.23	75.05	75.98	75.74	77.08	77.45	77.37	77.28
OASPL	93.31	93.96	94.06	94.19	94.13	94.06	94.38	94.69	94.93	95.23

distance: (	150	150	150	150	150	150	150	150	150
yaw angle	105	110	115	120	125	130	135	140	145
roll angle (	0	0	0	0	0	0	0	0	0
frequency	105	110	115	120	125	130	135	140	145
80	76.83	77.38	78.05	78.81	79.65	80.57	81.55	82.59	83.71
100	77.77	78.55	79.4	80.35	81.39	82.52	83.89	84.91	86.15
130	76.77	77.78	78.87	79.88	80.78	81.78	82.98	84.14	85.18
160	80.01	80.69	80.75	80.84	81.52	82.55	83.67	84.91	86.27
200	80.55	81.45	81.4	81.81	82.99	83.8	84.08	85.09	86.12
250	80.79	81.65	82.52	83.48	84.15	84.5	85.22	86.53	87.32
320	81.24	81.88	83.22	83.89	84.45	84.62	84.88	85.74	85.87
400	83.03	83.27	82.77	83.16	84.3	85	85.15	85.31	85.37
500	82.7	83.49	83.83	84.07	84.6	84.55	84.63	85.24	85.14
630	83.13	83.32	84.02	84.7	85.08	84.9	84.29	83.8	83.25
800	83.84	84.61	85.08	85.6	85.61	84.89	83.99	83.44	82.96
1000	84.72	85.55	86.01	86.27	85.87	84.79	83.69	83.02	82.52
1300	84.96	86.03	86.78	87.21	86.6	84.74	82.82	81.77	81.21
1600	85.37	86.43	87.36	87.89	87.71	85.65	83.06	82.02	81.22
2000	85.58	86.78	87.75	88.57	88.17	85.55	82.69	81.52	80.72
2500	84.4	85.91	87.26	88.07	87.1	84.87	82.3	80.82	79.86
3200	83.88	85.03	85.89	86.64	85.73	83.82	81.53	80.05	79.11
4000	82.74	83.75	84.29	84.26	83.72	82.42	80.84	79.42	78.06
5000	81.6	82.49	82.46	82.23	81.81	80.52	78.89	77.7	76.61
6300	80.41	81.07	81.04	80.59	80.33	79.05	77.17	75.91	74.86
8000	80.24	80.91	80.18	79.31	78.44	77.13	75.89	74.63	73.74
10000	77.83	77.35	76.59	76.04	75.86	74.83	73.4	71.92	70.74
OASPL	95.91	96.8	97.42	97.92	97.82	96.95	96.31	96.48	96.75

distance: (	150	150	150	150	
yaw angle	150	155	160	165	
roll angle (	0	0	0	0	
frequency	150	155	160	165	PWL
80	84.88	86.18	87.79	90.19	122.81
100	87.36	88.52	89.71	91.22	124.82
130	86.04	86.91	88.01	89.78	123.58
160	87.46	88.29	88.81	89.2	124.87
200	86.61	86.7	88.75	87.03	124.81
250	87.24	86.7	88.3	86.04	125.57
320	85.63	85.47	85.2	84.58	125.44
400	85.06	84.14	82.68	81.41	125.49
500	84.22	82.82	81.16	79.72	125.58
630	82.27	80.9	79.54	78.49	125.75
800	82	80.45	78.79	77.43	126.36
1000	81.58	80.02	78.35	76.96	126.99
1300	80.42	79.19	77.91	76.93	127.49
1600	80.04	78.57	77.22	76.48	127.75
2000	79.65	78.39	77.26	76.54	127.9
2500	78.86	77.78	76.86	76.24	126.99
3200	78.17	77.04	76.04	75.45	125.88
4000	76.74	75.51	74.58	74.22	124.47
5000	75.42	74.22	73.33	72.87	122.97
6300	73.94	73.14	72.44	71.85	121.85
8000	72.95	72.18	71.37	70.58	121.14
10000	69.8	68.94	68.16	67.58	118.54
OASPL	96.81	96.82	97.04	97.81	138.78

NASA Lewis Allison AST Jet Noise Test 1996

rdg	343
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	937.38
m01	0.20027
pamb	14.307
tamb	498.526
rhumid	73.48
winds1	0
nprc	1.547
nprb	1.613
ptc	22.1329
ptb	23.0772
wactc	2.895
wactb	15.73
ttc	1324.84
ttb	504.701
ptmix	22.9304
ttmix	632.18
mixpnd	0.780416
grsvixp	17458.7
badchan	(26)
bkgnd	332
escdate	02.Dec.96
esctime	18:18:41
DADSdate	97.08.18
DADStime	18:18:41
btchdate	02.Dec.96
btchtime	18:18:41

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 10:22:35 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	50.51	53.92	53.98	53.99	54.84	56.08	57.5	55.8	54.18	57.69	57.26	56.91
100	51.3	51.98	55.31	55.47	55.41	54.46	55.39	56.52	55.69	55.15	55.1	57.45
130	54.75	55.25	54.88	56.11	55.59	55.28	57.25	55.18	55.19	57.33	57.85	58.5
160	54.93	56.44	56.58	56.71	58.06	57.76	58.24	57.84	58.04	59.38	59.77	59.95
200	55.29	55.43	56.66	56.7	57.57	57.58	58.73	58.22	58.03	58.84	59.33	60.36
250	55.81	57.6	58.4	58.72	58.76	59.31	59.66	59.1	60.25	60.13	60.98	61.41
320	54.93	55.98	58.23	56.99	58.27	59.27	59.42	59.53	59.5	60.01	60.04	60.69
400	55.08	57	57.94	58.11	58.33	58.79	59.77	60.07	60.77	61.51	61.99	61.6
500	54.52	56.82	57.79	58.52	59.21	59.65	59.96	60.28	60.45	60.69	61.05	61.69
630	55.43	57.48	58.12	58.39	59.15	59.77	60.21	60.66	61.02	61.33	61.42	61.56
800	56.9	59.38	59.47	59.98	60.22	60.38	60.54	60.72	61.31	61.08	61.21	61.81
1000	57.81	60.15	60.02	60.91	60.7	60.13	60.18	60.8	61.03	61.16	61.72	62.33
1300	60.14	59.5	59.71	59.7	59.7	59.9	60.18	60.56	60.96	61.21	61.76	62.43
1600	57.07	58.5	59.04	59.26	59.51	59.6	59.59	60.53	60.69	60.84	61.44	62.27
2000	56.66	55.48	56.42	57.49	57.84	57.46	57.8	59.6	59.66	59.93	60.64	61.43
2500	50.05	51.9	53.55	54.67	54.93	54.87	55.54	58.3	58.36	58.08	58.52	59.57
3200	45.69	47.63	49.3	50.67	51.17	51.4	52.37	55.84	55.95	58.14	58.36	58.99
4000	39.92	42.55	44.3	45.72	45.83	46.32	47.79	52.57	52.74	52.69	53.05	53.6
5000	31.45	34.94	37.14	38.39	39	39.85	41.59	48.25	47.88	48.01	48.29	48.39
6300	18.25	23.45	26.79	29.03	29.9	30.72	33.42	42.23	42.22	42.07	41.77	41.68
8000	0	0	0	0	0	0	15.64	33.95	33.65	33.35	33.23	32.86
10000	0	0	0	0	0	0	0	16.76	15.59	14.6	12.78	-2.46
OASPL	67.85	69.1	69.64	70.11	70.47	70.64	71.13	71.58	71.78	72.17	72.57	73.12
PNL	78.14	78.92	79.65	80.23	80.59	80.61	81.08	81.6	81.71	81.82	82.26	82.95

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.73	58.84	57.31	60.38	60.26	60.11	59.85	59.72	59.43	58.78	57.7	123.42
100	57.97	58.28	58.46	56.69	60.89	61.17	61.2	60.93	60.36	59.59	58.74	124.01
130	58.67	59.89	59.63	59.75	59.89	60.11	61.51	61.26	60.46	59.04	57.12	124.19
160	60.08	59.16	59.6	60.26	61.01	60.96	60.61	59.8	58.37	57.33	54.83	124.23
200	60.08	60.3	61.45	61.26	60.92	61.98	61.58	60.43	58.57	58.71	53.62	124.6
250	62.75	62.68	63.1	62.46	62.39	62.34	61.25	59.79	57.85	55.38	51.81	125.49
320	60.88	61.11	61.53	61.08	60.68	60.03	59.37	57.59	55.25	52.11	47.84	124.02
400	60.53	61.26	61.34	61.05	60.32	60.1	58.93	56.98	53.7	49.69	44.79	124.24
500	62.08	61.83	61.73	60.97	59.78	58.29	56.69	54.29	50.85	46.53	41.59	123.96
630	61.53	61.45	61.3	60.17	58.28	56.86	55.1	52.38	48.91	44.41	39.06	123.69
800	61.85	62.17	61.48	59.9	58.1	56.28	54.29	51.57	47.63	42.68	36.65	124.01
1000	62.57	62.12	60.89	58.85	58.27	54.1	51.83	48.97	45.21	40.61	34.46	123.97
1300	62.65	62.74	61.66	59.02	55.58	53.08	50.88	47.85	43.69	38.61	32.2	123.93
1600	62.63	62.82	61.99	58.58	54.64	52.21	49.73	46.39	42.16	36.81	29.8	123.59
2000	62.19	62.39	60.7	57.1	53.33	50.31	47.41	44.05	39.78	34.43	26.95	122.42
2500	60.12	60.05	58.19	54.9	51.36	48.14	45.06	41.38	36.67	30.62	22.11	120.2
3200	57.18	56.89	55.04	51.98	48.6	45.34	41.61	37.21	31.85	24.97	0	117.34
4000	53.12	51.87	50.12	47.39	44.04	40.45	36.41	31.46	25.1	9.91	0	113.29
5000	47.46	46.08	44.22	41.18	37.24	33.28	28.64	21.95	0	0	0	107.92
6300	40.52	38.51	36.31	32.75	26.27	22.69	11.68	0	0	0	0	101.14
8000	30.3	27.48	23.81	17.05	0	0	0	0	0	0	0	91.78
10000	0	0	0	0	0	0	0	0	0	0	0	72.48
OASPL	73.37	73.41	73.04	72.07	71.32	70.92	70.34	69.25	67.79	66.23	64.25	136
PNL	83.25	83.22	82.11	79.7	77.19	75.73	74.13	71.87	68.98	65.64	61.11	82.61

NASA Lewis Allison AST Jet Noise Test 1996

rdg	342
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.228
amixc	35.02
amixb	78.39
scale	4
vid	981.42
m01	0.1993
pamb	14.3065
tamb	496.995
rhumid	71.44
winds1	0
nprc	1.743
nprb	1.823
ptc	24.9362
ptb	26.0807
wactc	3.232
wactb	18.219
ttc	1404.3
ttb	503.333
ptmix	25.9083
ttmix	639.081
mixpnd	0.791831
gravtep	21052.4
badchan	(26)
bkgnd	332
escdate	02.Dec.96
esctime	18:09:17
DADSdate	97.08.18
DADStime	18:09:17
btchdate	02.Dec.96
btchtime	18:09:17

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 10:25:12 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	75.99	78.55	77	77.39	77.77	78.19	78.86	79.22	79.87	80.64	81.54	82.2
100	78.36	79.42	79.75	79.89	80.12	80.56	81.03	81.23	81.15	81.16	81.51	82.3
130	78.87	80.27	80.7	80.61	80.31	80.01	79.88	80.05	80.52	81.23	82.12	83.11
160	79.59	81.06	81.43	81.24	81.21	81.58	82.12	82.55	82.71	82.82	83.11	83.74
200	81.3	82.03	82.11	81.99	81.87	82.01	82.8	83.53	83.89	84.32	84.86	85.47
250	81.13	81.49	81.89	82.17	82.2	82.22	82.41	82.84	83.63	84.82	85.49	85.68
320	82.13	82.44	82.64	82.7	82.57	82.52	82.93	83.24	83.72	84.13	84.58	85.39
400	81.65	82.38	82.98	83.33	83.38	83.59	84.28	84.83	85.41	85.85	86.28	86.68
500	81.94	83.37	83.53	83.64	83.63	84.02	84.13	84.65	85.08	85.42	85.78	86.41
630	82.68	84.04	84.42	84.32	84.47	84.58	84.7	85.2	85.72	86	86.32	86.82
800	84.57	85.41	85.19	84.92	85.14	85.3	85.75	86.17	86.56	86.94	87.43	88.01
1000	86.02	86.18	86.01	86.15	86.24	86.24	86.43	86.86	87.28	87.87	88.34	88.94
1300	86.93	87	87.14	87.41	87.61	87.49	87.33	87.62	88.3	89.11	89.76	90.53
1600	93.36	88.25	88.43	88.44	88.32	88.07	87.85	88.12	88.83	89.76	90.8	92.03
2000	89.44	89.46	89.5	89.01	88.64	88.54	88.48	88.35	88.78	89.78	91.23	92.81
2500	89.01	88.77	88.89	88.95	88.95	88.49	88.38	88.59	89.28	90.18	91.43	93.01
3200	88.41	88.57	89.06	89.37	89.2	88.57	88.53	88.7	89.42	90.18	91.22	92.73
4000	88.4	88.33	88.94	89.17	88.75	88.12	88.45	88.37	89.04	89.74	90.76	92.19
5000	87.95	87.4	88.04	88.18	87.62	87.39	87.99	88.1	88.63	89.35	90.38	91.46
6300	86.33	86.71	87.22	87.4	86.93	86.77	87.59	87.8	88.35	89.18	89.66	90.66
8000	85.14	85.68	86.13	86.5	86.3	86.39	87.57	87.3	87.75	88.72	89.4	90.42
10000	87.54	82.71	82.98	83.94	84.69	84.86	84.68	84.69	85.25	85.98	86.66	86.7
OASPL	99.8	99.05	99.33	99.43	99.31	99.14	99.39	99.59	100.14	100.87	101.7	102.77

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.63	81.42	82.01	83.56	85.63	87.86	89.99	91.93	93.69	95.44	97.58	128.54
100	83.28	84.28	85.15	86.35	88.05	90.01	92.01	93.84	95.38	96.69	97.98	130.2
130	84.1	85.02	85.81	86.54	87.82	90.05	92.42	94.41	95.99	97.32	98.7	130.65
160	84.76	85.91	86.91	87.95	89.17	90.48	91.91	93.59	95.29	96.65	97.43	130.62
200	85.75	86.17	87.25	88.84	89.92	91.06	91.99	92.42	92.47	92.54	92.45	129.97
250	86.65	88.17	89.49	89.91	90.35	91.59	92.36	92.62	92.56	92.3	91.83	130.45
320	86.7	87.14	88.2	89.16	89.89	90.99	91.71	91.62	90.93	90.16	88.89	129.76
400	87.56	88.37	88.92	89.58	90.26	90.69	90.75	90.2	89.28	88.38	87.1	130
500	87.35	88.11	88.81	88.67	88.7	89.14	89.53	89.15	88.1	87.22	86.08	129.41
630	87.6	88.23	88.57	88.8	88.5	88.6	88.97	88.22	86.56	85.42	84.49	129.47
800	88.46	89.06	89.09	88.6	88.18	87.99	87.91	87.24	85.81	84.14	82.69	129.93
1000	89.95	90.22	89.45	88.21	87.55	87.38	86.64	85.59	84.43	83.11	81.92	130.46
1300	91.46	91.98	90.82	88.73	87.35	86.86	86.27	85.28	84	82.69	81.57	131.53
1600	93.01	93.23	91.95	89.55	87.55	86.74	86.11	85.03	83.57	82.23	81.37	132.65
2000	93.65	93.93	92.84	90.4	88.01	86.64	85.89	84.99	83.75	82.46	81.5	133.06
2500	93.83	94.22	93.11	90.62	88.01	86.17	85.12	84.22	83.1	81.98	81.2	133.16
3200	93.56	93.87	92.79	90.3	87.8	86.14	84.79	83.8	82.58	81.73	81.27	133.02
4000	93.04	92.8	91.35	89.35	87.13	85.34	84.05	83.03	82.09	81.29	80.8	132.42
5000	91.86	91.35	90.08	88	85.74	83.98	82.85	82.1	81.45	80.64	79.98	131.55
6300	91.21	90.5	88.97	86.94	84.78	82.98	81.91	81.4	81.01	80.24	79.19	130.87
8000	90.51	89.88	87.95	85.65	83.86	82.51	81.51	80.93	80.52	79.76	78.7	130.27
10000	87.04	87.02	85.67	83.71	81.74	79.9	78.83	78.35	77.93	78.91	75.6	127.66
OASPL	103.52	103.73	103.05	101.93	101.39	101.74	102.38	102.93	103.47	104.16	105	144.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	342
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	981.42
m01	0.1993
pamb	14.3065
tamb	498.995
rhumid	71.44
winds1	0
nprc	1.743
nprb	1.823
ptc	24.9362
ptb	26.0807
wactc	3.232
wactb	18.219
ttc	1404.3
ttb	503.333
ptmix	25.9083
ttmix	639.081
mixpnd	0.791831
grsvisp	21052.4
badchan	(26)
bkgnd	332
escdate	02.Dec.96
esctime	18:09:17
DADSdate	97.08.18
DADStime	18:09:17
btchdate	02.Dec.96
btchtime	18:09:17

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 10:25:21 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	56.13	58.3	58.49	58.51	58.57	58.62	61.34	59.17	58	61.31	61.63	61.94
100	56.17	57.21	59.81	59.59	59.28	58.49	60.02	61.16	60.21	59.2	58.79	61.63
130	58.21	58.85	58.98	60.6	60.64	60.43	62.03	59.93	60.19	62.06	62.25	62.51
160	58.17	61.15	61.16	60.63	61.41	61.47	62.78	62.37	62.11	63.5	63.47	63.52
200	59.31	59.59	60.36	60.17	61.37	61.47	62.19	63.26	63.06	63.72	64.02	64.74
250	59.21	60.38	61.8	62.37	62.01	62.22	62.66	62.41	63.85	64.53	65.26	65.21
320	59.25	59.45	60	60.65	61.73	62.29	62.86	62.62	62.99	63.36	63.25	64.06
400	58.36	60.62	61.74	62.25	62.46	62.57	62.91	63.81	64.5	64.85	65.04	65.26
500	58.42	59.92	60.92	61.61	62.19	62.47	62.92	63.39	63.82	64.13	64.22	64.21
630	58.99	61.07	61.57	61.41	62.3	62.81	63.44	63.53	64.01	64.45	64.75	65.11
800	60.91	61.74	62.12	62.72	63.15	63.46	63.81	64.06	64.54	64.71	64.92	64.9
1000	60.53	61.63	62.43	63.16	63.84	63.98	64.14	64.3	64.57	65.2	65.76	66.32
1300	60.71	62.16	63	63.69	64.02	64.09	64.13	64.56	65.26	66	66.52	67.03
1600	61.67	62.74	63.37	63.52	63.76	63.97	64.06	64.52	65.21	66.04	67.01	68.19
2000	61.12	61.6	62.49	62.82	63.05	63.08	63.03	64.04	64.44	65.35	66.62	67.75
2500	58.59	59.44	60.46	61.52	61.93	61.66	61.8	63.3	63.97	64.74	65.61	66.75
3200	55.39	56.6	58.2	59.11	59.3	58.87	59.34	61.95	62.62	63.16	63.84	64.9
4000	50.51	52.05	53.6	54.56	54.65	54.84	55.62	59.4	60	60.53	61.25	62.06
5000	43.76	44.62	46.56	47.74	48.08	48.54	49.57	55.7	56.12	56.58	58.95	57.34
6300	31.58	34.45	36.87	38.31	39.02	39.78	41.59	50.03	50.53	51.09	51.15	51.45
8000	8.42	14.27	19.5	22.36	24.39	25.62	26.75	41.39	41.76	42.3	42.26	42.21
10000	0	0	0	0	0	0	0	26.77	26.95	27.07	26.5	24.78
OASPL	72.5	72.8	73.6	74.06	74.45	74.57	75.11	75.56	75.98	76.66	77.15	77.8
PNL	83.89	83.89	84.84	85.33	85.66	85.73	86.05	86.46	87	87.7	88.35	89.2

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.42	60.83	60.97	64.45	64.88	65.44	65.9	66.24	66.17	65.58	64.38	128.92
100	62.73	63.21	63.07	62.95	65.46	66.79	66.12	66.76	66.57	67.82	66.79	130.6
130	62.91	64.56	64.66	64.71	64.8	65.14	65.53	67.74	66.12	67.67	65.89	130.24
160	64.9	64.74	64.93	65.44	66.77	66.96	66.67	65.42	63.83	63.27	60.76	129.42
200	64.34	64.86	66.71	66.97	66.69	67.41	66.78	65.77	64.36	62.65	59.57	129.71
250	66.21	66.57	67.28	67.25	67.52	67.25	66.54	65.69	63.29	59.98	55.65	129.91
320	65.02	65.2	65.69	65.69	66.1	65.62	65.16	62.97	60.19	57.42	53.1	128.41
400	65.58	66.25	65.9	65.75	65.27	64.75	63.34	61.78	59.06	55.56	51.16	128.53
500	64.97	65.24	65.41	64.77	63.8	62.68	61.76	59.67	56.35	52.51	47.72	127.5
630	65.34	65.5	64.98	63.93	62.65	61.79	60.51	57.92	54.24	49.89	44.44	127.38
800	65.39	65.84	64.74	63.08	61.79	60.44	58.52	55.72	51.94	47.39	41.49	127.36
1000	66.79	66.53	65.15	62.79	60.62	59.05	56.86	53.98	50.35	45.66	39.43	127.72
1300	67.85	67.79	65.87	62.73	59.98	58.06	55.89	52.72	48.6	43.44	36.75	128.4
1600	68.57	68.15	66.16	62.83	59.45	57.04	54.69	51.59	47.33	41.95	34.92	128.52
2000	68.14	67.95	66.17	62.69	58.84	55.56	52.74	49.45	45.03	39.4	31.72	127.99
2500	66.94	66.6	64.64	61.22	57.42	53.96	50.57	46.69	42.06	36.16	27.82	126.78
3200	65.16	64.5	62.36	58.74	54.79	51.21	47.44	43.27	38.09	31.3	20.74	124.77
4000	62.01	60.45	58.05	54.59	50.53	46.55	42.6	38.02	32.16	23.73	0	121.39
5000	56.96	55.47	52.77	48.9	44.43	39.83	35.14	29.93	22.45	0	0	116.57
6300	50.8	48.75	45.26	40.9	36.04	30.93	24.98	14.75	0	0	0	110.31
8000	40.89	38.48	34.19	28.78	22.7	10.95	0	0	0	0	0	100.83
10000	22.39	19.33	6.53	0	0	0	0	0	0	0	0	84.6
OASPL	78.27	78.27	77.6	76.67	76.3	76.15	75.82	75.41	74.49	73.38	71.56	140.95
PNL	89.47	89.16	87.68	85.23	82.79	80.99	79.63	77.93	75.15	72.56	68.93	88.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	346
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	MD20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	600.97
m01	0.29936
pamb	14.2552
tamb	497.633
rhumid	73.01
winds1	0
nprc	1.175
nprb	1.216
ptc	16.7499
ptb	17.3343
wactc	2.031
wactb	9.206
ttc	1120.3
ttb	505.323
ptmix	17.2287
ttmix	616.475
mixpnd	0.493686
grsvixp	6753.1
badchan	(25)
bkgnd	333
escdate	02.Dec.96
esctime	18:52:44
DADSdate	02.Dec.96
DADStime	18:52:44
btchdate	02.Dec.96
btchtime	18:52:44

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 03:10:08 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (h	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0	0	0	0	0	0
250	65.57	68.05	69.13	69.04	68.12	68.12	68.74	69.56	70.39	71.22	71.82	72.08
320	65.98	67.92	68.36	68.24	68.15	68.55	69.27	69.69	69.8	69.83	69.98	70.44
400	60.82	66.63	67.85	67.03	66.73	68.37	68.9	69.67	69.68	69.91	70.98	71.53
500	65	67.45	67.56	67.44	67.84	68.73	69.04	69.48	69.75	70.27	71.31	71.62
630	65.84	68.46	68.72	68.69	69.19	69.6	70.17	70.81	71.08	70.91	71.28	71.08
800	65.54	67.02	67	67.24	67.85	68.54	69.04	69.67	70.21	70.17	70.25	70.65
1000	65.21	66.71	66.91	67.06	67.66	68.45	69.12	69.84	70.46	70.42	70.44	70.66
1300	63.79	65.25	65.55	65.96	66.67	67.47	67.99	68.59	68.54	68.18	67.93	67.95
1600	61.44	63.21	63.33	63.62	64.52	65.84	66.56	68.98	67.33	67.33	67.15	67.41
2000	58.74	61.76	62.07	62.22	63.25	64.96	65.22	66.65	65.63	65.45	65.77	65.98
2500	59.07	61.14	61.36	61.45	62.55	63.55	63.82	64.32	64.21	64.27	64.53	64.42
3200	59.43	60.68	61.27	62.08	62.71	63.65	64.31	64.5	64.33	64.25	64.38	64.27
4000	58.87	60.84	61.43	61.76	62.79	64.18	64.82	64.78	64.97	64.72	64.47	64.18
5000	58.95	61.28	62.35	62.7	63.07	64.73	65.77	65.84	65.7	65.58	65.8	65.26
6300	60.64	62.19	63.39	63.51	64.06	65.6	66.8	67.18	67.16	66.95	66.62	66.33
8000	61.28	63.44	64.68	64.86	65.2	66.98	68.2	68.46	68.43	68.2	68.32	68.17
10000	61.69	62.77	63.31	64.07	65.23	66.62	67.16	67.61	67.64	67.13	67.18	68.32
OASPL	75.37	77.57	78.1	78.14	78.48	79.42	80.04	80.56	80.79	80.83	81.14	81.28

distance: (h	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	185	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	0	0	0	0	0	0	0	0	0	42.93
250	72.14	72.11	72.11	72.24	72.41	72.24	71.61	70.68	64.43	62.36	60.9	113.45
320	71.18	71.96	71.8	70.95	70.63	71.3	71.73	70.8	62.25	61.39	61.27	112.78
400	70.88	70.96	71.47	71.84	71.31	71.11	70.41	67.57	56.71	56.28	56.56	112.49
500	71.79	71.96	72.38	72.88	72.99	72.7	71.86	70.36	68.43	67.75	68.02	113.37
630	71.48	72.01	72.45	72.58	72.11	71.31	70.3	69.02	66.69	65.92	66.01	113.48
800	70.89	71.2	71.56	71.85	71.63	70.98	69.37	67.41	65.51	64.4	64.44	112.58
1000	70.96	71.05	70.85	70.43	69.78	68.87	67.75	66.56	65.49	64.74	64.69	112.21
1300	68.09	68.56	69.07	69.02	68.31	67.18	66.81	64.59	63.4	63.08	63.4	110.39
1600	67.52	67.74	68.3	68.66	67.91	66.93	65.87	64.41	62.77	62.03	62.22	109.36
2000	65.81	66.39	66.95	66.62	65.51	64.31	63.23	62.08	60.84	60.44	60.88	107.73
2500	64.83	65.12	65.24	64.95	63.6	62.17	61.14	60.42	59.39	59.36	60.03	108.39
3200	63.94	63.75	63.99	63.99	62.93	61.4	60.07	59.09	58.23	58.9	60.26	108.07
4000	63.59	63.04	62.96	62.95	61.66	60.48	59.19	58.24	57.42	57.49	58.08	108
5000	64.71	63.73	63.26	63.09	62.03	60.69	59.45	58.29	57.38	57.19	57.7	108.74
6300	65.9	64.85	64.38	64.13	62.74	61.19	59.94	58.93	58.27	57.98	58.28	107.84
8000	67.32	65.67	65.09	64.77	63.49	62.07	60.9	59.98	59.4	59.18	59.37	109.13
10000	65.61	64.24	64.03	64.46	63.06	61.12	59.56	58.65	58.23	58.11	58.36	108.15
OASPL	81.31	81.43	81.61	81.63	81.26	80.71	79.91	78.53	75.29	74.58	74.73	123.03

NASA Lewis Allison AST Jet Noise Test 1996

rdg 348
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
ngbld JER w/ external supplement
mixbld MD20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vjd 800.97
m01 0.29938
pamb 14.2552
tamb 497.833
rhumid 73.01
winds1 0
nprc 1.175
nprb 1.218
ptc 16.7499
ptb 17.3343
wactc 2.031
wactb 9.208
ttc 1120.3
ttb 505.323
ptmix 17.2287
ttmix 818.475
mixpnd 0.493686
gravtxp 6753.1
badchan (25)
bkgnd 333
escdate 02.Dec.96
esctime 18:52:44
DADSdate 02.Dec.96
DADStime 18:52:44
btchdate 02.Dec.96
btchtime 18:52:44
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 03:10:18 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
160	0	0	0	40.11	42.42	45.5	48.24	0	0	0	0	0	47.47	47.98	46.95	47.87	48.87	47.91	0	0	0	0	0	108.03
200	44.79	47.31	48.92	49.11	48.84	48.7	48.79	49.12	50.97	51.72	51.99	51.45	50.99	50.98	50.39	48.94	48.31	47.18	46.23	44.04	39.23	35.59	31.3	113.49
250	41.78	44.82	45.83	45.1	45.42	47.34	47.98	49.08	48.89	48.34	48.04	48.16	48.35	48.6	48.93	48.53	48.92	48.08	46.38	43.91	31.07	28.38	26.19	111.42
320	39.08	44.15	45.41	45.67	45.75	48.73	47.2	48.75	48.97	48.99	49.68	49.94	49.16	49.12	48.98	49.04	48.58	47.45	44.52	40.21	27.57	24.9	24.62	111.72
400	41.76	44.88	45.72	46.37	47.5	48.4	48.72	48.2	49.02	49.6	50.49	50.4	50.5	50.08	49.67	49.01	47.5	45.5	45.27	42.48	38.89	35.82	32.56	112.3
500	41.41	44.4	44.79	44.99	45.53	46.35	46.93	49.16	49.18	48.89	48.93	48.81	48.46	48.19	47.98	47.42	46.36	44.63	43.3	40.38	36.08	32.72	29.27	110.99
630	40.27	42.61	43.34	44.01	44.89	45.66	46.52	47.58	47.89	47.66	47.44	47.15	47.33	47.45	47	45.8	44.16	41.87	41.7	37.97	33.74	29.91	25.68	109.64
800	39.47	41.43	41.93	42.5	43.57	44.55	44.96	47.28	47.74	47.25	46.84	46.51	46.05	45.39	44.54	43.34	41.56	39.12	39.28	36.19	32.72	28.74	24.2	108.36
1000	37.16	39.39	40.1	40.53	41.21	42.43	43.09	45.56	45.33	44.63	44.04	43.81	43.46	43.32	43.11	42.53	40.73	38.34	38.29	33.26	29.55	25.88	20.91	108.26
1300	34.04	36.17	36.77	37.39	38.53	40.6	41.1	43.38	43.62	43.33	42.9	42.54	41.99	41.72	41.42	40.16	37.76	35.14	35.61	32.05	27.73	23.04	17.45	104.37
1600	29.89	34.19	35.12	35.8	37.27	38.41	38.7	41.37	41.15	40.63	40.34	39.91	39.43	39.15	38.55	37.27	34.76	31.79	32.12	28.6	24.33	19.82	9.81	101.86
2000	29.28	31.64	32.72	33.71	35.26	36.53	37.45	39.05	38.9	38.79	38.8	38.2	37.63	36.88	36.1	34.89	32.35	29.2	28.78	25.48	21.23	14.19	1.91	99.81
2500	26.01	28.78	30.26	31.62	32.97	34.58	35.55	37.78	37.59	37.34	37.04	36.58	35.45	34.25	33.3	31.99	29.48	26.1	25.79	22.19	18.1	7.49	0	97.82
3200	20.58	24.99	26.73	28.04	29.64	31.81	33.11	35.77	35.92	35.62	35.22	34.57	33.37	31.73	30.34	28.81	26.09	22.33	22.24	12.61	0	0	0	95.47
4000	0	13.92	20	22.17	24.24	26.7	28.44	33.37	33.29	33	32.86	31.72	30.58	28.83	27.18	25.31	20.13	0	8.57	0	0	0	0	92.22
5000	0	0	0	0	0	13.39	19.29	29.24	29.36	29.14	28.62	27.86	26.46	23.26	19.05	8.33	0	0	0	0	0	0	0	87.37
6300	0	0	0	0	0	0	0	20.45	20.48	19.55	18.89	18.73	8.58	0	0	0	0	0	0	0	0	0	0	77.23
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	50.47	53.4	54.43	54.83	55.37	56.37	57.08	57.7	58.15	58.18	58.34	58.18	58.25	58.16	57.78	57.2	56.04	54.93	53.07	50.19	44.5	41.08	37.42	120.56
PNL	56.12	59	60.31	61.11	61.87	63.15	63.88	64.34	64.55	64.43	64.64	64.37	64.48	64.01	63.44	62.53	61.16	59.26	56.56	53	47.47	43.08	37.93	62.85

NASA Lewis Allison AST Jet Noise Test 1996

rdg 347
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 811.67
m01 0.29969
pamb 14.2582
tamb 498.685
rhumid 72.28
winds1 0
nprc 1.39
nprb 1.446
ptc 19.8189
ptb 20.6174
wactc 2.562
wactb 13.395
ttc 1182.47
ttb 504.467
ptmix 20.4892
ttmix 613.325
mixpnd 0.668483
grsvisp 12951.8
badchan (26)
bkgnd 333
escdate 02.Dec.96
esctime 18:59:50
DADSdate 02.Dec.96
DADStime 18:59:50
btchdate 02.Dec.96
btchtime 18:59:50
**Scenario: 150 foot arc; 77F, 70%; Full scale: Third-octave SPL
Processing date: Mon Aug 18 10:36:17 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	69.06	69.43	69.2	68.92	68.91	69.31	69.92	70.56	71.06	71.37	71.36	71.38	72.36	73.46	73.51	72.92	72.96	73.49	74.21	74.96	75.84	77.07	79.06	115.04
100	69.55	69.93	70.46	71.06	71.68	72.26	72.67	72.82	72.7	72.44	72.17	72.06	72.36	72.72	72.69	73.01	74.2	74.82	74.82	74.96	75.63	76.97	79.14	115.86
130	68.46	70.39	69.47	69.53	69.57	69.65	69.77	69.96	70.29	70.62	70.92	71.24	71.7	72.03	72.35	72.59	72.61	73.9	75.24	75.97	76.46	77.28	78.9	114.98
160	69.15	69.39	69.74	70.07	70.21	70.36	71.09	72.05	72.79	73.1	73.09	72.96	73.24	73.68	74.01	74.38	75.04	75.2	74.99	75.08	75.6	76.6	76.06	115.96
200	68.94	71.11	70.49	70.85	71.43	71.85	72.12	72.32	72.78	73.51	74.1	74.26	74.35	75.14	75.38	74.76	74.57	74.7	74.92	75.13	75.33	75.67	76.53	116.47
250	70.32	71.62	72.54	73.06	73.05	72.84	73.42	74.3	74.49	74.38	75.07	75.21	75.26	75.57	76.02	76.47	76.63	77.11	77.19	76.96	76.62	76.45	76.69	117.85
320	71.77	72.92	73.11	73.01	73.33	73.95	74.97	75.05	75.4	76.16	76.46	76.17	76.36	76.95	77.51	77.68	77.39	77.12	76.78	76.15	75.42	74.98	75.05	118.56
400	71.63	73.42	73.36	73.3	73.74	74.56	75.54	76.03	76.5	77.04	76.97	76.81	77.06	77.16	77.04	76.83	76.42	75.78	75.12	74.64	74.24	73.98	74.17	118.66
500	72.36	74.36	74.56	74.21	74.46	75.2	76.05	76.11	76.57	77.3	77.06	77.15	77.25	77.65	78.05	78.07	77.63	76.83	75.86	74.91	74.04	73.37	73.11	119.2
630	72.75	74.34	74.52	74.84	75.48	76.26	76.99	77.41	77.66	77.89	77.76	77.83	78.45	78.3	77.87	77.53	76.73	75.73	74.7	73.71	72.85	72.31	72.35	119.59
800	74.76	76.94	76.46	76.37	76.92	77.65	78.1	78.46	78.37	78.44	79	79.11	79.07	79	79.07	78.88	77.82	76.46	75.13	73.9	72.87	72	71.67	120.68
1000	75.51	78.04	77.63	77.68	78.2	78.71	79.04	79.06	78.97	79.1	79.34	79.57	79.36	79.5	79.72	79.2	77.55	75.81	74.36	73.13	72.11	71.42	71.35	121.26
1300	76.44	76.34	76.52	76.55	78.69	78.8	78.78	78.59	78.19	78.14	78.7	79.22	79.52	79.74	79.66	78.96	77.44	75.67	74.16	73.1	72.23	71.53	71.46	121.2
1600	77.03	78.49	78.65	78.9	79.12	78.81	78.16	77.73	77.6	77.76	78.32	79.16	79.53	79.72	80.04	79.67	77.65	75.92	74.39	73.35	72.53	71.87	71.8	121.2
2000	85.56	77.61	77.41	77.76	78.06	77.41	77.34	76.82	76.64	77.23	77.87	78.4	78.93	79.25	79.21	78.57	77.19	75.65	74.23	73	72.01	71.34	71.35	120.92
2500	91.13	75.57	75.5	76.07	76.37	76.09	76.24	75.83	75.69	76.22	76.76	77.15	77.43	77.74	77.92	77.43	75.91	74.31	73	71.97	71.06	70.33	70.15	121.39
3200	80.33	72.96	73.21	73.68	74.2	74.64	75.22	74.86	74.67	75.25	75.42	75.72	75.74	76.06	76.18	75.61	74.5	73.06	71.68	70.66	69.83	69.16	69.11	117.76
4000	89.09	72.01	72.66	72.96	73.06	73.4	74.11	73.64	73.59	74.01	74.06	74.31	74.25	73.97	73.62	73.11	72.17	70.99	69.79	68.8	67.92	67.26	67.44	118.81
5000	87.63	71.04	72.48	72.47	72.3	72.96	73.63	73.06	72.83	73.3	73.3	73.11	72.73	72.23	71.64	70.89	69.67	68.78	67.71	66.81	66.14	65.83	66.21	117.58
6300	93.06	70.75	72.11	72.57	72.26	72.5	72.94	72.96	73.19	73.27	72.52	72.39	72.06	71.31	70.42	69.41	68.26	67.18	66.2	65.36	64.8	64.62	65.06	120.8
8000	92.07	70.86	72.37	72.7	72.41	72.57	72.98	72.98	73.31	73.49	72.77	72.41	71.61	70.87	69.68	68.54	67.31	66.28	65.44	64.68	64.17	64.09	64.65	120.02
10000	74.4	69.16	70.28	71.19	71.51	72	70.83	70.72	71.54	71.67	70.56	69.23	68.56	68.06	67.41	66.52	65.48	64.27	63.09	62.2	61.64	61.49	61.93	112.72
OASPL	98.51	87.69	87.81	88.01	88.29	88.52	88.82	88.83	88.88	89.19	89.4	89.6	89.77	89.96	90.04	89.71	88.88	88.07	87.43	86.96	86.7	86.85	87.77	132.49

NASA Lewis Allison AST Jet Noise Test 1996

rdg 347
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nawbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 811.67
m01 0.29969
pamb 14.2582
tamb 496.685
rhumid 72.28
wnds1 0
nprc 1.39
nprb 1.446
ptc 19.8199
ptb 20.6174
wactc 2.562
wactb 13.395
ttc 1182.47
ttb 504.467
ptmix 20.4882
tmix 613.325
mixpnd 0.668483
gravwp 12951.6
badchan (26)
bkgnd 333
escdate 02 Dec 96
esctime 18:59:50
DADSdate 97.08.25
DADStime 18:59:50
btchdate 02.Dec.96
btchtime 18:59:50
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 10:31:02 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	44.65	46.85	47.29	48.82	47.9	47.6	48.63	50.24	50.09	49.62	49.5	49.14
80	43.35	43.84	45.57	44.72	47.08	46.76	48.06	49.97	47.74	48.9	49.79	49.77
100	43.2	44.34	45.3	46.86	47.36	47.23	48.16	47.61	47.83	48.44	47.65	49.84
130	44.87	45.25	46.53	47.01	48.62	49.75	48.99	50.09	49.8	51.09	50.43	50.43
160	46.07	47.54	48.52	47.82	50.7	50.83	51.62	50.22	51.32	51.41	52	52.08
200	47.63	49.47	51.89	52.46	53.46	52.63	53.47	52.5	53.48	53.78	55.18	55.2
250	48.08	50.25	50.33	50.01	50.79	52.44	53.7	53.31	52.76	53.34	53.15	52.65
320	47.37	50.74	51.44	51.2	52.03	52.36	54.14	54.55	55.07	55.54	55.87	54.66
400	48.26	50.94	52.08	51.23	53.59	53.6	54.6	54.26	54.58	55.49	55.29	55.6
500	47.79	51.68	51.58	52.7	54.01	54.92	55.43	55.3	55.72	55.77	56.22	55.84
630	49.87	53.4	52.89	54.31	54.78	55.65	56.06	56	55.88	56.2	56.46	56.8
800	50.02	53.17	52.99	53.78	54.78	55.37	55.51	56.42	56.02	55.71	55.85	55.82
1000	50.11	53.24	53.55	54.43	55.18	54.92	54.34	55.26	54.96	54.84	55.07	55.53
1300	49.81	52.08	52.63	53.32	53.77	52.97	52.97	53.8	53.68	53.72	53.84	54.17
1600	47.42	49.79	49.9	50.78	51.52	50.52	51.21	52.3	51.95	52.37	52.61	52.84
2000	43.56	45.47	46	46.89	47.78	47.64	48.54	50.41	49.97	50.35	50.64	50.31
2500	38.76	40.59	41.72	42.83	43.91	44.03	45.26	48.1	47.59	48.13	47.8	47.63
3200	33.23	35.63	37.62	38.95	39	40.21	41.14	44.55	44.45	44.69	44.02	43.78
4000	24.98	28.06	31.29	32.92	32.93	34.15	35	40.53	40.27	40.47	39.74	38.95
5000	0	12.84	20.63	23.11	23.78	25.21	26.45	35.08	35.4	35.46	33.94	33.45
6300	0	0	0	0	0	0	0	26.88	27.03	28.79	24.93	23.45
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	58.88	62.35	62.81	63.44	64.38	64.58	65.16	65.51	65.49	65.73	65.98	65.98
PNL	69.68	72.13	72.8	73.51	74.28	74.08	74.8	74.42	74.22	74.53	74.66	74.69

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.89	48.31	47.3	47.39	47.98	49.86	46.85	46.51	45.58	44.54	46.98	113.32
80	49.12	49.93	49.41	48.74	47.16	48.59	48.61	46.88	45.57	44.93	44.64	112.86
100	48.76	48.67	50.74	50.51	50.06	50.18	49.58	49.4	47.69	45.42	44.98	113.6
130	50.28	51.64	51.24	51.13	49.44	48.23	48.93	48.06	46.28	43.69	42.91	114.06
160	51.59	52.02	51.64	52.53	52.31	52.73	48.88	47.82	45.95	43.71	43.4	115.36
200	55.24	55.66	55.71	54.68	53.93	52.37	51.51	49.94	48.25	45.05	42.27	117.63
250	52.39	53.18	53.48	53.2	52.14	50.35	50.93	48.82	46.28	43.02	39.98	116.35
320	54.8	54.71	54.52	54.2	52.91	51.27	48.61	46.82	44.69	41.86	38.64	117.39
400	55.75	55.45	54.72	53.46	51.52	49.3	49.01	46.79	43.57	39.34	35.64	117.49
500	55.67	54.74	54.27	53.76	51.84	49.53	47.17	44.82	41.7	37.51	33.65	117.77
630	56.13	55.74	55.45	54.17	51.33	48.28	47.08	44.29	40.39	35.8	31.53	118.4
800	55.52	54.98	54.42	53.11	50.61	47.41	45.51	42.73	38.93	33.88	29.57	117.91
1000	55.53	55.1	54.53	53.22	50.11	46.58	44.39	41.74	38.03	32.97	27.88	117.59
1300	54.13	53.65	53.09	51.83	49.18	45.67	43.56	40.97	37.29	31.98	26.44	116.29
1600	52.74	52.31	51.54	49.93	47.21	43.78	42.6	39.47	35.49	30.22	24.01	114.53
2000	49.81	49.4	48.61	46.84	44	40.75	40.32	37.12	32.88	26.78	19.24	111.74
2500	46.59	45.64	44.5	42.74	40.19	36.83	37.25	33.78	29.15	22.56	-2.77	108.54
3200	43.05	41.42	39.42	37.24	34.57	31	32.85	28.95	23.55	7.12	0	104.57
4000	37.61	36.03	34.09	31.37	27.69	23.28	26.89	21.59	3.77	0	0	99.59
5000	31.75	29.33	26.63	22.5	13	0	14.3	0	0	0	0	93.5
6300	19.84	13.19	0	0	0	0	0	0	0	0	0	83.83
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	65.8	65.59	65.25	64.43	62.79	61.35	60.05	58.43	56.29	53.69	52.92	128.35
PNL	74.38	73.93	73.25	71.92	69.53	66.8	64.23	61.64	58.05	53.18	48.73	72.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	348
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	933.72
m01	0.29953
pamb	14.2552
tamb	495.589
rhumid	73.29
winds1	0
nprc	1.54
nprb	1.615
ptc	21.953
ptb	23.0221
wacic	2.86
wacib	15.721
ttc	1323.42
ttb	504.544
ptmix	22.8576
ttmix	630.586
mixpnd	0.758403
gravtxp	17349.5
badchan	(25)
bkgnd	333
escdate	02.Dec.96
esctime	19:08:25
DADSdate	97.08.25
DADStime	19:08:25
bkchdate	02.Dec.96
bkchtime	19:08:25

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 10:39:24 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.19	71.73	72.55	70.58	73.02	74.28	72.89	70.43	70.21	73.19	73.57	73.84
100	71.8	72.66	74.87	72.47	71.55	73.56	73.54	73.14	73.08	71.87	71.86	73.33
130	72.81	70.45	70.56	72.83	71.55	71.88	72.53	72.05	72.89	72.73	73.47	74.01
160	71.47	71.71	73.23	74.39	74.09	73.76	73.96	73.65	73.85	74.58	75.3	76.26
200	73.67	74.07	73.84	75.13	74.29	74.2	74.4	75.56	75.97	76.56	76.6	76.72
250	74.39	75.18	76.71	75.31	74.65	75.08	75.68	76.3	76.94	77.72	77.43	77.87
320	75.55	76.28	77.55	76.57	76.31	75.81	77.73	77.65	77.6	78.02	77.79	78.37
400	75.8	77.29	77.97	77.08	76.81	77.8	78.31	78.96	79.48	79.59	80.32	80.21
500	77.83	78.69	78.74	77.87	78.32	78.86	79.18	79.28	79.57	79.51	79.91	80.7
630	77.9	79.49	79.62	79.93	79.84	79.86	80.05	79.91	79.65	79.92	80.31	80.81
800	80.09	81.65	81.37	81.66	81.17	81.13	81.28	81.25	81.82	82.12	82.51	82.75
1000	81.95	83.22	84	83.43	82.58	82.56	82.26	81.9	82.54	82.7	82.9	83.57
1300	84.19	84.66	85.57	84.84	83.43	82.78	82.07	81.88	82.36	82.5	83.28	84.49
1600	85.12	84.68	85.15	84.44	83.01	82.93	82.81	82.92	83.44	82.93	83.34	84.73
2000	84.45	84.37	84.45	84.06	83.3	83.21	83.02	82.58	83.01	82.54	84.02	85.29
2500	81.76	81.71	82.42	82.27	82.6	81.85	82.25	81.94	82.18	81.71	82.95	84.38
3200	79.07	79.77	80.6	80.54	80.92	80.01	81.38	80.79	81.31	81.26	81.97	83.1
4000	77.01	78.24	79.36	78.8	79.03	78.46	79.88	78.99	79.76	79.84	80.72	82.12
5000	75.01	76.44	77.8	77.65	76.93	76.65	78.24	77.59	77.99	78.16	79.43	80.22
6300	74.13	75.4	76.91	76.43	76.17	75.66	77.36	77.01	76.91	76.81	77.96	78.51
8000	72.92	74.68	76.2	75.43	75.48	74.84	76.82	76.07	75.8	75.92	77.67	77.95
10000	71.43	72.55	73.01	73.1	73.65	73.37	73.76	73.23	72.8	72.65	75.31	73.99
OASPL	92.58	93.07	93.7	93.23	92.71	92.51	92.81	92.58	92.97	92.97	93.68	94.58

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.19	74.13	74.5	75.57	76.69	77.58	78.36	79.28	80.5	82.28	85.33	118.23
100	73.93	74.37	75.54	77.17	78.6	79.23	79.73	80.97	82.14	83.05	85.32	119.12
130	74.89	76.45	77.15	76.89	76.92	78.42	80.56	82.24	83.18	83.84	85.48	119.39
160	76.66	77.47	78.06	78.18	78.73	79.61	80.54	81.39	82.15	83.03	84.72	120
200	78.12	78.59	78.85	79.48	79.9	80.4	81.05	81.52	81.79	81.78	82.4	120.67
250	78.76	79.59	80.08	80.1	79.9	80.54	81.73	82.49	82.74	82.73	82.86	121.49
320	78.64	80.38	80.64	80.97	81.19	80.94	80.73	80.91	81.02	80.83	80.52	121.81
400	79.77	80.59	81.54	81.49	80.93	80.73	81	81.18	80.64	79.43	78.52	122.5
500	80.83	80.54	80.92	81.6	81.28	80.36	79.86	80.2	79.97	78.48	77	122.69
630	81.16	81.7	81.86	81.42	80.47	79.7	79.48	79.6	79.08	77.66	76.49	123.12
800	83.58	83.9	83.68	82.88	81.07	80.02	79.59	78.9	77.97	76.97	76.03	124.72
1000	84.3	85.09	85.28	84.23	82.35	80.81	79.81	79.09	78.04	76.83	76.14	125.86
1300	84.88	85.86	85.61	84.25	82.42	80.63	79.28	78.58	77.94	76.96	76.19	126.4
1600	85.45	85.94	85.69	84.52	82.87	81.01	79.47	78.59	77.71	76.54	76.01	126.64
2000	85.6	85.78	85.76	84.8	82.74	80.66	79.26	78.58	77.93	76.98	76.7	126.6
2500	85.02	85.51	85.4	84.33	82.39	80.44	78.98	78.01	77.05	75.96	75.78	125.67
3200	83.53	83.46	83.33	82.55	80.68	79.08	77.99	77.08	76.01	74.83	74.82	124.18
4000	82.03	81.47	81.21	80.8	79.04	77.83	76.59	75.6	74.41	73.24	73.6	122.58
5000	80.06	79.32	78.92	78.3	76.51	75.24	74.61	73.82	72.74	71.71	72.22	120.74
6300	78.54	77.5	76.81	76.37	74.99	73.26	72.51	72.01	71.27	70.38	70.83	119.36
8000	77.3	75.89	74.95	74.31	72.87	71.82	71.31	70.71	69.78	68.62	69.23	118.41
10000	73.63	72.66	71.78	71.5	70.61	69.12	67.88	67.49	66.99	65.9	65.35	115.57
OASPL	95.02	95.35	95.37	94.73	93.56	92.73	92.54	92.72	92.75	92.7	93.65	136.51

NASA Lewis Allison AST Jet Noise Test 1996

rdg	348
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	933.72
m01	0.29953
pamb	14.2552
tamb	495.589
rhumid	73.29
winds1	0
nprc	1.54
nprb	1.615
ptc	21.953
ptb	23.0221
wactc	2.86
wactb	15.721
ttc	1323.42
ttb	504.544
ptmix	22.8578
ttmix	630.586
mixpnd	0.758403
grsvlxp	17349.5
badchan	(25)
bkgnd	333
escdate	02.Dec.96
esctime	19:08:25
DADSdate	97.08.25
DADStime	19:08:25
btchdate	02.Dec.96
btchtime	19:08:25

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:39:34 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	50.83	51	53.17	52.45	49.77	51.2	52.02	50.39	50.55	51.68	52.13	52.69	55.28	53.87	52.46	52.7	53.12	55.72	53.62	53	51.75	50.87	55.24	118.17
80	48.41	50.99	51.67	50.28	51.75	52.38	53.04	53.07	51.78	49.51	52.14	53.61	50.7	54.17	55.04	54.87	53.46	55.01	55.14	54.78	54.05	52.75	52.05	118.8
100	51.03	49.37	50.81	52.72	52.44	53.06	52.97	51.93	52.56	53.12	52.72	54.64	54.73	55.02	56.48	55.4	55.01	55.9	55.81	56.04	55.36	54.09	53.18	119.67
130	49.84	50.63	52.01	53.69	53.33	53.94	53.87	53.47	52.72	54.14	54.73	55.88	56.24	56.72	55.99	57.04	56.4	55.6	55.63	55.12	54.05	52.69	51.65	119.89
160	51.68	52.65	53.72	53.86	53.58	54.48	55.7	55.28	55.85	55.97	56.38	56.32	57.21	57.84	57.23	57.59	58.49	56.77	56.02	55.19	53.56	51.3	50.27	120.59
200	52.62	53.85	55.98	55.92	55.54	55.89	57.19	55.88	56.99	58.2	58.3	57.96	58.61	59.03	59	58.18	57.84	56.42	56.66	55.88	54.63	52.73	49.84	121.79
250	52.64	53.95	54.63	54.29	54.9	56.29	57.04	57.05	58.46	56.51	58.07	56.62	57	57.73	58.36	58.14	57.01	55.96	55.36	54.02	52.54	49.99	46.74	120.77
320	52.71	55.32	56.8	55.84	56.15	57.23	57.77	58.03	58.9	58.87	59.18	58.84	58.3	58.28	58.18	58.07	56.81	55.18	55.16	53.85	51.67	48.17	44.3	121.56
400	53.77	55.45	56.44	56.94	57.63	57.95	58.44	58.02	58.45	58.4	58.67	59.25	59.26	58.65	58.58	57.64	55.99	53.88	53.37	52.3	50.18	46.13	40.97	121.49
500	53.55	55.91	56.38	57.49	57.23	58.1	58.74	58.26	57.92	58.43	58.9	59.36	59.81	59.92	58.93	57.47	55.26	53.58	52.34	50.97	48.47	44.45	38.75	121.55
630	55.52	58.16	58.98	59.42	59.48	59.77	59.77	59.15	59.81	60.08	60	60.14	60.7	60.98	60.99	59.24	55.95	53.44	51.81	49.42	46.29	42.58	37.38	122.88
800	56.75	58.68	60.49	60.35	59.8	59.54	58.84	59.35	59.85	59.77	60.12	60.46	60.96	61.04	60.17	58.28	55.82	52.74	51.38	48.7	45.29	40.86	35.69	122.91
1000	58.1	59.18	60.85	60.23	58.88	58.86	59.03	58.82	59.44	59.46	60.16	61.18	61.08	61.07	60.25	58.22	55.4	52.2	49.76	47.21	44.12	39.7	33.78	122.85
1300	58.03	58.43	59.21	59	58.54	58.74	58.68	58.31	58.78	59.13	59.54	60.66	60.8	60.71	59.63	57.58	54.61	51.18	49.11	46.2	42.84	37.7	31.63	122.38
1600	55.76	56.35	57.07	56.96	57.02	56.75	56.91	58.27	58.57	57.95	58.89	59.82	59.82	59.53	58.69	56.62	53.39	49.9	47.94	45.04	41.48	36.49	30.1	121.05
2000	51.15	51.82	53.57	53.75	54.21	53.43	54.75	56.68	56.79	56.13	56.98	57.79	57.49	57.01	55.91	53.83	50.32	46.98	46.46	43.05	38.89	33.34	26.19	118.55
2500	45.67	47.3	49.08	49.38	50.03	49.44	50.99	54.09	54.45	54.07	54.48	55.15	54.79	53.47	52.06	50.01	46.82	43.4	43.77	40.15	35.46	29.15	20.78	115.39
3200	39.35	41.82	43.98	44.28	44.39	44.42	45.97	50.08	50.69	50.48	50.91	51.44	50.5	48.75	47.04	44.98	41.37	37.8	39.89	35.75	30.34	22.98	0	111.09
4000	30.55	33.57	36.18	37	37.29	37.39	38.4	45.23	45.42	45.18	45.89	45.93	44.66	42.72	40.79	38.48	34.5	30.23	34.18	29.61	22.83	0	0	105.33
5000	17.08	22.18	26.01	27.08	28.14	28.28	30.9	39.28	39.03	38.59	39.43	39.31	37.93	35.32	32.78	29.77	24.88	18.18	25.79	18.49	0	0	0	98.35
6300	0	0	0	0	0	0	4.87	30.22	29.81	29.55	30.56	29.33	27.1	23.1	17.57	5.41	0	0	0	0	0	0	0	88.19
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	66.27	67.62	68.84	68.87	68.62	68.93	69.27	69.39	69.75	69.77	70.15	70.71	70.89	70.93	70.47	69.35	67.6	68.47	65.84	64.86	63.39	61.34	60.65	133.32
PNL	77.1	78.1	79.24	79.22	79.16	79.18	79.62	79.55	79.8	79.49	80.11	80.78	80.73	80.43	79.63	77.98	75.29	72.68	70.26	68.09	65.33	61.62	57.47	78.83

1

NASA Lewis Allison AST Jet Noise Test 1996

rdg	349
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	981.59
m01	0.30049
pamb	14.2557
tamb	495.172
rhumid	75.48
winds1	0
nprc	1.738
nprb	1.822
ptc	24.7764
ptb	25.9739
wactc	3.192
wactb	18.155
ttc	1408.01
ttb	505.388
ptmix	25.7948
ttmix	840.356
mixpnd	0.79118
grsvixp	20954
badchan	(26)
bkgnd	333
escdate	02.Dec.96
esctime	19:18:05
DADSdate	97.08.25
DADStime	19:18:05
btchdate	02.Dec.96
btchtime	19:18:05

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 10:42:11 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.76	74.29	74.64	77.19	76.09	75.49	75.04	75.64	77.18	77.37	77.2	77.38	78.29	78.92	79.45	80.17	80.98	82.2	83.88	85.82	87.79	89.88	92.8	123.68
100	74.98	76.42	76.25	76.73	78.25	78.83	77.34	77.28	77.94	79.18	79.39	77.87	79.16	80.55	81.59	82.32	82.39	83.33	85.1	86.86	88.78	91.23	94.47	125.11
130	75.99	76.28	77.46	77.47	77.19	77.54	78.03	77.04	77.03	77.65	77.35	77.99	79.53	80.16	80.8	81.75	82.33	84.05	86.33	87.79	88.78	90.08	92.58	124.8
160	76.64	76.76	77.37	78.61	78.27	78.38	78.12	78.24	79.68	79.74	79.61	81.73	81.86	81.79	82.56	83.73	84.81	85.85	87.13	88.82	90.59	92.15	93.31	126.39
200	77.07	78.31	78.83	78.84	79.4	79.7	79.49	79.94	80.63	80.11	80.5	81.35	81.67	82.43	83.64	84.55	84.85	85.56	86.54	87.24	88	89.04	90.24	125.75
250	78.43	79.49	80.41	79.19	79.76	80.14	79.8	81.52	81.98	81.42	80.77	82.69	83.53	84.47	85.37	85.69	85.93	86.73	87.7	88.51	89.12	89.63	90.21	126.88
320	79.98	80.43	79.98	81.01	80.07	80.35	81.63	81.52	80.85	81.07	82.05	82.34	83.21	84.82	85.39	84.94	85.28	85.99	86.54	86.77	86.9	87.24	88.07	126.3
400	80	80.79	81.41	81.01	80.44	81.42	82.03	81.65	82.21	82.63	83.21	84.27	85.06	85.58	85.9	86.16	86.13	85.43	84.97	85.66	86.21	86.05	85.95	126.73
500	80.64	83.1	82.78	81.15	82.3	82.28	82.18	82.5	82.74	82.84	83.51	84.48	85.18	85.3	85.7	86.02	85.18	85.07	85.61	85.51	85	84.59	84.83	126.85
630	82.36	84.13	83.32	83.13	83.43	83.44	83.41	83.31	84.05	84.53	84.66	84.92	85.68	86.27	86.44	86.08	85.01	84.46	84.34	83.95	83.5	83.28	83.22	127.37
800	83.79	85.45	84.21	84.86	84.52	84.42	84.32	84.41	85.1	85.04	85.43	86.21	87.21	87.21	86.6	85.91	85.02	84.39	84	83.53	82.93	82.29	82.41	128.11
1000	86.2	86.92	86.17	86.1	86.79	86.19	85.91	86.21	86.71	87	87.55	87.92	89.18	89.4	88.18	86.48	85.23	84.1	83.08	82.14	81.35	80.94	81.11	129.82
1300	86.95	87.95	87.29	87.55	87.78	87.1	86.89	86.81	87.42	87.9	88.49	89.24	90.09	90.28	89.63	87.93	85.48	83.8	83	82.26	81.59	81.14	81.08	130.57
1600	88.78	89.07	88.36	88.21	88.04	87.85	87.84	88.18	88.27	88.76	90.24	90.83	91.9	92.08	91.36	89.82	87.09	84.77	83.47	82.9	82.18	81.1	80.96	131.88
2000	89.91	90.09	89.27	89.17	88.64	88.48	88.65	88.74	88.71	89.2	90.75	91.66	92.49	92.65	92.23	90.98	88.36	85.82	84.12	83.08	82.13	81.24	81.16	132.63
2500	89.84	89.49	89.28	89.22	88.85	88.72	88.5	88.80	88.78	89.15	90.5	91.83	92.43	92.62	92.24	91.14	89	86.33	84.19	83.31	82.59	81.44	81.43	132.65
3200	89.68	89.53	89.37	89.42	88.79	87.98	88.77	89.04	88.67	89.3	90.81	91.2	92.12	92.18	91.68	90.64	88.29	85.95	84.31	83.31	82.32	81.24	81.34	132.44
4000	88.7	89.21	88.8	89.43	88.18	87.77	88.33	88.51	88.46	88.8	90.29	90.78	91.26	90.78	90.03	89.12	87.18	85.15	83.53	82.26	80.98	79.76	80.35	131.72
5000	87.18	88.1	88.16	88.7	86.78	87.38	87.5	88.2	87.75	87.94	89.57	89.79	89.81	89.15	88.46	87.56	85.67	83.64	82.09	80.99	79.8	78.69	79.51	130.87
6300	86	87.41	87.28	87.9	86.05	86.77	86.78	87.89	87.41	87.28	88.33	88.8	89.02	87.93	87.03	86.37	84.41	82.38	80.92	79.93	78.83	77.79	78.91	129.81
8000	84.46	86.38	86.17	87.14	85.51	86.04	86.57	87.49	87.15	86.82	87.77	88.23	88.25	86.96	85.67	85.12	83.34	81.52	80.19	79.32	78.24	77.09	78.19	129.1
10000	82.36	83.84	83.07	84.46	83.61	84.56	83.7	85	84.24	83.59	85.1	84.04	84.47	83.6	82.59	82.23	80.95	78.83	77.05	76.56	75.77	74.2	74.77	126.22
OASPL	98.83	98.44	99.05	99.29	98.7	98.61	98.72	99.11	99.11	99.37	100.48	101.11	101.79	101.79	101.35	100.52	99.05	98.08	97.98	98.34	98.87	99.72	101.35	142.69

NASA Lewis Allison AST Jet Noise Test 1996

rdg	349
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	981.59
m01	0.30049
pamb	14.2557
tamb	495.172
rhumid	75.48
winds1	0
nprc	1.738
nprb	1.822
ptc	24.7764
ptb	25.9739
wactc	3.192
wactb	18.155
ttc	1408.01
ttb	505.388
ptmix	25.7948
tmix	640.356
mixpnd	0.79118
grsvixp	20954
badchan	(26)
bkgnd	333
escdate	02.Dec.96
esctime	19:16:05
DADSdate	97 08.25
DADStime	19:16:05
btchdate	02.Dec.96
btchtime	19:16:05

**Scenario: Fly-over, full-scale. 1500' sideline, standard day

Processing date: Wed Aug 27 10:42:21 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance, ('	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	52.78	53.98	55.28	56.86	56.6	56.49	54.86	55.6	58.47	58.3	57.64	57.34
80	51.42	55.26	55.76	54.56	57.18	57.74	58.4	57.19	58.49	58.7	57.88	55.87
100	54.47	54.71	55.4	57.21	55.65	58.04	56.01	58.93	56.66	57.81	57.11	59.28
130	54.89	55.46	57.07	57.22	58.39	59.4	59.07	58.06	58.9	59.94	58.9	61.63
160	55.06	57.29	57.41	57.31	58.47	59.5	59.8	59.67	60.42	59.1	59.78	60.95
200	56.38	57.98	58.37	59.97	59.84	60.14	61.14	61.09	61.92	61.85	61.55	62.41
250	57.59	58.01	57.79	58.56	58.2	60.04	60.89	60.91	59.79	59.86	60.4	60.93
320	56.66	59.14	60.12	59.61	60.17	60.84	60.78	60.74	61.63	62.01	61.96	62.61
400	57.23	59.63	59.81	59.25	60.97	61.18	61.54	61.23	61.69	61.91	62.41	62.96
500	57.91	60.84	60.34	61.32	60.96	61.77	61.93	61.64	62.28	62.99	63.16	63.28
630	59.24	61.88	61.39	62.55	63.62	63.21	63.32	62.31	62.95	63.05	63.4	64.15
800	60.74	62.16	62.31	62.98	63.77	63.49	63.6	63.85	64.19	64.3	64.74	65.27
1000	60.9	62.76	62.84	63.35	63.93	63.75	64.02	63.75	64.47	64.93	65.87	66.21
1300	61.9	63.14	63.22	63.43	63.64	63.77	64.2	64.56	64.69	65.09	66.23	66.8
1600	61.61	62.36	62.54	63.01	63.22	63.39	63.13	64.42	64.39	64.79	66.06	66.66
2000	59.62	60.27	61.1	61.49	61.48	61.26	61.95	63.6	63.51	63.65	65.01	65.39
2500	56.34	57.61	58	59.16	58.79	58.54	59.34	62.32	61.82	62.27	63.2	63.42
3200	51.06	53.04	53.88	55.03	54	54.76	55.2	59.59	59.45	59.5	60.78	60.5
4000	42.81	45.46	46.82	48.32	47.14	48.44	48.79	55.77	55.24	55.11	56.07	55.47
5000	31.52	34.97	36.79	38.97	38.3	39.36	40.54	50.08	49.83	49.24	49.85	49.62
6300	0	16.83	19.83	23.55	23.23	25.63	25.88	41.56	41.17	40.48	40.56	39.76
8000	0	0	0	0	0	0	0	27.1	25.93	24.05	24.25	20.42
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	70.65	72.23	72.48	73	73.41	73.66	73.87	74.29	74.59	74.85	75.51	76.04
PNL	82.72	83.99	84.31	84.66	85.06	85.35	85.44	85.97	86.02	86.2	87.15	87.54

distance, ('	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	60.04	59.23	58.59	58.23	57.14	59.83	59.15	59.47	58.97	58.39	62.94	123.97
80	55.2	58.23	58.2	58.21	57.66	60.5	60.51	60.65	60.7	60.94	61.32	124.3
100	59.13	58.81	60.89	61.08	60.86	62.08	61.52	61.59	60.97	60.29	60.21	125.02
130	61.05	60.94	61.03	62.2	61.23	60.46	62.19	62.55	62.49	61.83	60.16	126.05
160	60.81	62.2	62.01	62.85	62.46	62.93	61.53	60.79	59.76	58.69	57.79	125.71
200	63.03	64.01	64.23	62.82	62.38	61.68	62.59	61.68	61.39	59.74	57.35	126.8
250	61.42	62.07	62.65	62.97	62.36	60.66	61.13	59.86	58.27	56.54	54.51	125.4
320	63.72	63.48	62.92	62.5	60.89	60.06	59.12	58.33	57.31	54.67	51.65	125.66
400	63.06	62.87	62.73	61.97	60.18	58.54	59.22	57.63	55.09	52.26	48.87	125.39
500	63.97	63.62	62.48	61.32	59.6	57.95	57.26	55.31	52.94	50.02	46.41	125.58
630	64.99	65.09	63.72	61.27	59.12	56.84	56.18	54.05	51.22	47.73	43.42	126.34
800	66.23	65.78	64.11	61.7	58.44	55.75	54.51	51.73	48.58	44.93	40.65	126.97
1000	66.73	66.81	65.51	63.18	58.48	55.92	53.49	50.89	47.75	43.96	38.74	127.63
1300	67.11	66.63	65.74	63.61	60.17	56.25	53.11	50.5	47.1	42.22	36.58	127.92
1600	67.26	66.53	65.25	63.24	59.61	55.49	52.76	49.52	45.76	40.84	34.45	127.59
2000	65.54	65.11	63.78	61.6	57.94	53.86	51.53	48.35	44.41	38.8	32.01	126.17
2500	63.49	62.37	60.64	58.41	54.93	50.85	50.11	46.34	41.74	35.64	27.83	123.9
3200	58.91	58.33	56.37	54.06	50.33	45.98	48.74	42.42	36.99	29.77	19.91	120.47
4000	54.88	52.95	50.69	48.12	43.88	39.16	41.51	36.88	30.46	21.05	0	115.37
5000	48.52	46.1	43.36	40.27	35.67	30.26	34.25	28.71	19.54	0	0	108.92
6300	38.39	35.23	31.69	27.62	21.25	0	23.67	8.19	0	0	0	99.31
8000	17.28	5.5	0	0	0	0	0	0	0	0	0	82.62
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	76.49	76.31	75.47	74.24	72.42	71.52	71.26	70.59	69.75	68.68	68.55	138.47
PNL	87.74	87.28	86.11	84.31	81.35	78.42	75.99	73.74	71.75	68.95	65.88	85.19

100%L, 20DH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg 233
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
ngbld JER w/ external supplement
mixbld DP20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 572.46
m01 0.01459
pamb 14.4464
tamb 496.998
rhumid 58.42
windsl 0
nprc 1.168
nprb 1.21
ptc 16.8734
ptb 17.4801
wactc 1.611
wactb 9.708
ttc 1106.19
ttb 500.765
ptmix 17.3938
ttmix 586.933
mixpnd 0.481955
grsvixp 6479.67
badchan (26)
bkgnd 227
escdate 22.Nov.96
esctime 15:26:35
DADSdate 22.Nov.96
DADStime 15:26:35
btchdate 22.Nov.96
btchtime 15:26:35
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:56:41 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	62.9	63.23	63.64	64.12	64.67	65.28	65.95	66.66	67.42	68.21	69.03	69.86
100	63.24	64.7	65.78	66.53	67.04	67.38	67.63	67.87	68.17	68.59	69.21	70.05
130	63.71	64.67	65.35	65.81	66.12	66.33	66.53	66.77	67.13	67.67	68.46	69.52
160	65.28	65.36	65.67	66.25	67.08	68.13	69.22	69.91	70	70.11	70.73	71.8
200	65.96	66.75	67.25	67.63	68.05	68.6	69.27	70.03	70.84	71.63	72.37	73.04
250	66.65	67.8	68.55	69.46	70.21	70.7	71.06	71.46	72.01	72.71	73.53	74.42
320	67.43	68.31	69.04	69.7	70.26	70.69	71.31	71.15	71.57	72.38	73.22	74.04
400	66.06	67.34	68.44	69.39	70.07	70.49	71.08	71.73	72.24	72.74	73.46	74.39
500	66.27	67.64	68.51	69.07	69.53	70.13	71	71.56	72.04	73.03	73.87	74.87
630	65.9	67.66	68.85	69.7	70.26	70.75	71.41	72	72.71	73.33	74.09	74.83
800	66.06	67.55	68.49	69.16	69.58	70.04	70.67	71.47	72.23	72.78	73.38	73.93
1000	65.57	66.84	67.45	67.81	68.3	69.1	69.99	70.82	71.57	72.35	73.26	74.05
1300	64.82	66.1	66.73	66.96	67.4	68.2	69.2	70.18	70.78	71.15	71.61	71.87
1600	64.1	65.46	65.94	66.26	66.76	67.56	68.55	69.29	69.85	70.33	70.99	71.83
2000	63.51	64.53	65.11	65.65	66.68	67.64	68.51	69.26	69.8	70.06	70.66	71.22
2500	62.94	63.94	64.51	65.39	66.11	66.97	68.02	68.79	69.2	69.71	70.49	71.13
3200	62.05	63.54	64.39	65.29	66.09	67.15	68.46	69.26	68.88	70.58	71.67	72.07
4000	61.44	62.78	63.48	64.56	65.72	67.11	68.51	69.01	69.34	70.25	71.66	72.29
5000	60.42	62.16	62.8	63.75	64.62	66.14	67.69	68.65	69.03	69.63	70.85	71.72
6300	59.41	61.33	62.17	63.17	64.06	65.61	67.51	68.91	69.64	70.2	70.76	71.38
8000	58.78	61.06	62.06	63.22	64.2	65.82	67.71	69.28	70.14	70.84	71.62	72.22
10000	57.43	58.9	59.6	61.77	63.23	64.76	66.22	67.72	68.67	69.23	70.24	70.32
OASPL	77.76	78.84	79.73	80.43	81.05	81.76	82.62	83.31	83.89	84.5	85.31	86.03

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.74	71.61	72.46	73.35	74.22	75.06	75.89	76.69	77.45	78.18	0	114.19
100	71.06	72.16	73.29	74.38	75.36	76.15	76.69	76.86	76.67	75.97	0	114.68
130	70.76	72.05	73.28	74.32	75.09	75.6	75.98	76.29	76.31	75.35	0	114.2
160	72.33	72.81	73.56	74.41	75.16	75.69	75.96	75.9	75.47	74.6	0	114.82
200	73.6	73.99	74.39	75.04	75.69	76.07	76.1	75.76	75.03	73.93	0	115.45
250	75.34	76.22	77	77.62	78.02	78.09	77.66	76.56	74.77	72.14	0	117.14
320	75.25	76.4	77.02	77.48	77.84	77.23	76	74.61	73.15	71.48	0	116.79
400	75.14	75.79	76.07	75.59	74.95	74.41	73.52	72.25	70.69	68.85	0	115.63
500	75.6	76.63	77.36	77.46	76.76	74.78	73.41	72.33	70.67	68.56	0	116.46
630	75.61	76.53	77.04	76.82	75.63	73.88	72.32	70.92	69.42	68.67	0	116.27
800	74.32	75.17	75.73	75.14	73.78	72.06	70.47	69.42	68.35	67.4	0	115.18
1000	74.37	74.84	74.91	74.27	72.8	71.41	69.81	68.11	66.63	65.7	0	114.59
1300	72.59	73.57	73.9	72.73	71.1	69.9	68.61	67.09	65.58	64.55	0	113.31
1600	72.16	72.82	73.52	72.66	70.3	68.69	67.18	65.93	64.51	63.15	0	112.66
2000	71.61	72.26	72.36	71.2	69.18	67.71	66.16	64.62	63.22	61.61	0	112.1
2500	71.26	71.96	72.29	70.55	68.2	66.6	64.93	63.45	62.03	60.61	0	111.66
3200	71.65	72.29	72.17	70.36	67.7	65.66	64.06	62.33	60.45	58.52	0	112.02
4000	71.19	71.67	72.61	70.22	67.12	65.06	63.09	61.07	58.69	56.44	0	111.76
5000	70.82	71.12	71.5	69.37	66.62	64.22	61.99	60.01	57.28	55.32	0	111.1
6300	71.3	71.3	71.19	68.99	66.33	63.78	61.16	58.6	55.87	54.15	0	111.07
8000	71.71	71.79	71.42	69.36	67.03	64	61.16	58.58	55.53	55.04	0	111.53
10000	70.22	70.54	70.63	68.47	65.82	62.26	58.66	56.03	52.71	50.14	0	110.13
OASPL	86.51	87.22	87.73	87.52	87.1	86.63	86.16	85.69	85.04	84.23	0	127.66

NASA Lewis Allison AST Jet Noise Test 1996

rdg	233
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	572.46
m01	0.01459
pamb	14.4464
tamb	498.996
rhumid	58.42
winds1	0
nprc	1.168
nprb	1.21
ptc	16.8734
ptb	17.4801
wactc	1.611
wactb	9.708
ttc	1108.19
ttb	500.765
ptmix	17.3938
ttmix	566.933
mixpnd	0.481955
gravixp	6479.87
badchan	(26)
bkgnd	227
ascdate	22.Nov.96
asctime	15:26:35
DADSdate	22.Nov.96
DADStime	15:26:35
btchdate	22.Nov.96
btchtime	15:26:35

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:56:46 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	41.12	41.93	42.73	43.53	44.32	45.1	45.87	46.62	47.34	48.03	48.69	49.29
100	41.41	43.37	44.84	45.91	46.66	47.17	47.53	47.8	48.06	48.39	48.84	48.43
130	41.84	43.29	44.37	45.15	45.7	46.09	46.39	46.66	46.99	47.42	48.04	48.86
160	43.32	43.9	44.82	45.52	46.59	47.81	49.01	49.73	49.78	49.79	50.24	51.06
200	43.86	45.17	46.09	46.79	47.46	48.18	48.96	49.75	50.53	51.22	51.78	52.2
250	44.39	45.85	47.22	48.46	49.46	50.13	50.59	51.02	51.54	52.13	52.77	53.41
320	44.94	46.34	47.51	48.51	49.36	50.15	50.67	50.54	50.92	51.63	52.29	52.86
400	43.21	45.01	46.55	47.86	48.81	49.42	50.13	50.83	51.29	51.68	52.21	52.87
500	42.99	44.93	46.26	47.18	47.91	48.7	49.69	50.29	50.73	51.6	52.24	52.96
630	42.1	44.47	46.15	47.39	48.24	48.95	49.73	50.38	51.03	51.53	52.09	52.53
800	41.72	43.83	45.3	46.39	47.1	47.77	48.53	49.38	50.09	50.51	50.91	51.16
1000	40.66	42.6	43.74	44.54	45.35	46.37	47.39	48.28	48.98	49.62	50.3	50.78
1300	39.11	41.29	42.49	43.19	43.95	44.98	46.12	47.15	47.7	47.93	48.15	48.07
1600	37.88	39.98	41.07	41.87	42.73	43.77	44.9	45.89	46.21	46.53	46.95	47.24
2000	36.42	38.25	39.47	40.71	41.91	43.13	44.16	44.97	45.44	45.55	45.9	46.06
2500	34.61	36.49	37.76	39.18	40.31	41.46	42.69	43.51	43.87	44.2	44.69	44.92
3200	31.99	34.44	36.06	37.56	38.8	40.17	41.64	42.5	43.06	43.59	44.35	44.28
4000	28.58	31.06	32.7	34.47	36.16	37.9	39.51	40.06	40.36	41.05	42.07	42.17
5000	22.81	26.48	29.18	29.98	31.5	33.46	35.26	36.29	36.57	36.93	37.79	38.01
6300	0	14.13	19.5	22.8	25.13	27.36	29.57	31.06	31.65	31.85	31.88	31.71
8000	0	0	0	0	0	13.63	19.34	21.82	22.85	23.09	23.34	22.91
10000	0	0	0	0	0	0	0	0	0	0	0	0
DASPL	54.05	55.68	56.93	57.96	58.81	59.59	60.37	60.96	61.46	61.97	62.53	63.05
PNL	59.68	61.77	63.2	64.51	65.59	66.72	67.87	68.67	69.2	69.69	70.32	70.56

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.84	50.31	50.7	50.98	51.14	51.16	50.98	50.58	49.87	48.73	0	114.12
100	50.13	50.83	51.47	51.98	52.25	52.2	51.73	50.71	49.01	48.43	0	114.57
130	49.78	50.67	51.4	51.85	51.91	51.59	50.95	50.03	48.54	45.88	0	114.03
160	51.27	51.35	51.61	51.85	51.89	51.57	50.8	49.51	47.54	44.72	0	114.55
200	52.44	52.42	52.31	52.35	52.26	51.77	50.76	49.15	46.85	43.76	0	115.06
250	54	54.48	54.72	54.72	54.37	53.55	52.04	49.64	46.19	41.46	0	116.55
320	53.72	54.44	54.53	54.35	53.93	52.4	50.05	47.3	44.12	40.23	0	115.98
400	53.26	53.47	53.2	52.05	50.81	49.1	47.05	44.32	40.95	36.73	0	114.7
500	53.52	53.89	54.05	53.46	51.92	48.93	46.3	43.66	40.06	35.32	0	114.88
630	52.92	53.35	53.24	52.28	50.2	47.37	44.46	41.36	37.74	34.1	0	114.27
800	51.14	51.47	51.37	50.01	47.72	44.85	41.8	38.98	35.6	31.52	0	112.66
1000	50.69	50.41	50.01	48.55	46.07	43.44	40.34	36.73	32.74	28.4	0	111.59
1300	48.34	48.77	48.4	48.35	43.65	41.14	38.25	34.69	30.49	25.77	0	109.75
1600	47.31	47.36	47.3	45.55	42.05	39.06	35.82	32.36	28.05	22.7	0	108.49
2000	45.96	45.98	45.31	43.15	39.82	36.95	33.51	29.56	25.01	18.36	0	107.17
2500	44.51	44.52	43.89	41.18	37.51	34.28	30.52	26.37	21.38	3.59	0	105.65
3200	43.49	43.17	42.05	39.02	34.89	31.21	27.01	22.16	4.78	0	0	104.48
4000	40.39	39.96	39.7	35.94	31.1	26.84	21.49	1.36	0	0	0	101.85
5000	36.16	35.34	34.43	30.63	25.66	18.94	0	0	0	0	0	97.48
6300	30.52	29.18	27.33	21.9	4.92	0	0	0	0	0	0	91.5
8000	20.05	16.18	7.19	0	0	0	0	0	0	0	0	81.53
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
DASPL	63.42	63.76	63.83	63.36	62.63	61.56	60.28	58.65	56.6	53.93	0	125.75
PNL	70.27	70.33	70.03	68.82	66.9	64.87	62.37	59.36	55.43	50.43	0	68.74

NASA Lewis Allison AST Jet Noise Test 1996

rdg	234
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	DP20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.23
m01	0.01685
pamb	14.4452
tamb	499.194
rhumid	59.38
winds1	0
nprc	1.393
nprb	1.437
ptc	20.1222
ptb	20.7578
wactc	2.563
wactb	13.743
ttc	1176.24
ttb	502.667
ptmix	20.6578
ttmix	608.54
mixpnd	0.674049
grsvbp	13293.1
badchan	{26}
bkgnd	227
ascdate	22 Nov 96
asctime	15:40:19
DADSdate	97.08.18
DADStime	15:40:19
bichdate	22.Nov.96
bichtime	15:40:19

**Scenario 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:14:31 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle ((	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	185	PWL
80	73.34	74.34	74.84	75.11	75.38	75.86	76.5	77.26	78.07	78.89	79.63	80.29	80.94	81.68	82.6	83.84	85.52	87.57	89.63	91.35	92.33	92.24	0	126.79
100	75.24	76.3	76.68	76.7	76.86	76.78	77.08	77.55	78.17	78.9	79.69	80.55	81.55	82.8	84.34	86.12	88.02	89.87	91.33	92.05	92.03	91.49	0	127.72
130	75.14	76.01	76.6	76.96	77.14	77.2	77.21	77.23	77.35	77.63	78.14	79.04	80.51	82.42	84.47	86.48	88.44	90.25	91.71	92.5	92.06	90.02	0	127.75
160	76.19	76.56	76.51	76.5	77.08	78.21	78.75	79.06	79.67	80.57	81.8	82.81	83.15	84.29	85.71	87.08	88.34	89.37	89.87	89.99	89.94	89.2	0	127.33
200	77.03	77.51	77.84	78.19	78.57	78.69	79.12	79.53	80.2	80.99	81.97	82.83	83.48	84.14	84.97	85.98	87.03	88.08	88.24	87.28	86.35	85.31	0	128.23
250	76.78	77.35	77.12	77.38	78.18	79.39	80.21	80.56	80.6	80.88	81.72	83.13	84.07	84.86	85.67	86.65	88.21	88.81	88.06	87.31	86.57	84.87	0	128.64
320	78.19	78.51	78.37	78.88	79.47	80.16	80.28	80.13	80.7	81.84	81.85	83.21	84.11	84.86	86.61	87.03	87.44	87.28	86.26	84.88	83.67	81.87	0	128.23
400	76.91	77.69	78.3	78.73	79.03	79.46	80.26	80.83	81.62	81.97	82.91	83.91	84.34	85.05	85.81	85.78	86.01	85.83	84.7	83.43	81.5	79.61	0	125.88
500	77.03	77.72	78.24	78.67	78.86	79.11	79.54	80.12	80.76	81.51	82.66	83.33	84.14	84.98	85.95	85.24	85.21	85.25	84.37	82.72	80.54	78.21	0	125.3
630	76.7	78.15	78.53	79.17	79.63	79.7	79.83	80.59	81.29	81.72	82.12	82.58	83.73	84.31	85	84.53	84.89	84.21	82.61	80.75	78.38	76.46	0	124.84
800	76.98	78.13	78.68	78.98	78.24	79.52	79.95	80.88	81.33	81.72	82.59	83.32	83.86	84.13	84.71	84.06	83.75	83.01	81.81	79.97	77.77	75.61	0	124.82
1000	76.57	77.5	77.98	78.37	78.69	78.97	79.54	80.28	80.91	81.29	81.97	82.53	83.09	83.88	84.05	83.26	83.21	82.52	80.67	78.98	76.57	74.35	0	124.03
1300	76.61	77.74	78.11	78.41	78.59	78.92	79.31	80.06	80.59	81	81.76	82.44	82.79	83.2	83.26	82.6	82.74	81.8	80.26	78.54	75.99	73.24	0	123.87
1600	76.01	77.24	77.5	77.85	78.27	78.48	79.06	79.84	80.37	80.72	81.52	82.14	82.51	83.04	83.11	82.21	81.97	80.87	79.04	77.54	75.19	72.4	0	123.27
2000	75.88	76.91	77.1	77.64	78.32	78.56	78.82	79.38	80.08	80.4	81.18	81.89	82.28	83.08	82.62	81.33	81.08	80.18	78.27	76.44	74.12	71.68	0	122.91
2500	75	75.71	76.22	77.23	77.89	78.22	78.78	79.41	79.87	80.4	81.04	81.6	81.97	82.58	82.1	80.86	80.44	79.29	77.15	75.19	72.7	70.09	0	122.5
3200	73.87	75.15	76	76.95	77.6	77.89	78.08	79.44	80.21	80.6	81.08	81.38	81.55	82.1	81.81	79.98	79.17	78.13	76.09	74.16	71.3	68.58	0	122.18
4000	73.24	74.31	75.01	75.98	76.59	77.26	78.45	78.71	79.46	80.27	81.12	81.3	80.83	81.1	81.09	78.87	78.13	76.95	74.93	73.14	70.2	67.21	0	121.54
5000	72.09	73.57	73.98	74.44	74.75	75.82	77.61	78.45	78.9	79.22	80.3	80.89	80.19	80.18	80.25	77.84	76.88	75.48	73.48	71.45	68.5	65.5	0	120.65
6300	70.67	72.14	72.85	73.08	73.49	74.81	77.08	77.8	78.48	78.83	79.32	79.87	79.75	79.63	79.13	76.3	75.69	74.3	72.04	69.59	66.35	63.98	0	119.81
8000	69.42	70.93	71.44	71.94	72.21	73.65	76.92	77.29	78.17	78.72	79.49	79.67	79.08	78.84	77.86	75.47	74.68	73.01	70.65	68.15	65.21	63.34	0	119.26
10000	66.9	67.8	68	69	70.11	71.86	74.63	74.75	75.61	75.85	77.32	76.57	76.14	76.15	75.65	73.44	71.81	69.98	67.17	64.49	61.77	59.16	0	118.66
OASPL	88.91	89.81	90.17	90.6	91.03	91.5	92.16	92.66	93.3	93.83	94.6	95.32	95.8	96.49	97.16	97.3	98.09	98.71	99	99.09	98.61	97.82	0	138.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg	234
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nahbid	NATR full wedge
ngbid	JER w/ external supplement
mixbid	DP20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.23
m01	0.01685
pamb	14.4452
tamb	499.194
rhumid	59.38
winds1	0
nprc	1.393
nprb	1.437
ptc	20.1222
ptb	20.7578
wactc	2.563
wactb	13.743
ttc	1176.24
ttb	502.867
ptmix	20.6578
ttmix	608.54
mixpnd	0.674049
grsvixp	13293.1
badchan	(26)
bkgnd	227
escdate	22.Nov.96
esctime	15:40:19
DADSdate	97.08.18
DADStime	15:40:19
btchdate	22.Nov.96
btchtime	15:40:19

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:14:40 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	51.56	53.04	53.94	54.52	55.04	55.68	56.42	57.21	58	58.71	59.29	59.71
100	53.42	54.97	55.75	56.08	56.28	56.57	56.97	57.48	58.06	58.69	59.32	59.94
130	53.26	54.63	55.62	56.3	56.72	56.95	57.06	57.12	57.2	57.36	57.72	58.38
160	54.23	55.12	55.45	55.77	56.59	57.69	58.54	58.91	59.45	60.25	61.31	62.08
200	54.95	55.94	56.68	57.35	57.96	58.47	58.81	59.25	59.89	60.58	61.36	61.99
250	54.53	55.6	55.79	56.36	57.43	58.82	59.75	60.13	60.13	60.29	60.97	62.13
320	55.66	56.53	56.63	57.46	58.53	59.4	59.63	59.52	60.05	61.09	60.91	62.02
400	54.05	55.37	56.42	57.22	57.76	58.4	59.31	59.92	60.66	60.92	61.66	62.4
500	53.75	55.01	55.99	56.79	57.25	57.7	58.24	58.86	59.46	60.09	61.05	61.43
630	52.9	54.94	55.82	56.85	57.61	57.86	58.13	58.93	59.6	59.91	60.1	60.27
800	52.61	54.41	55.48	56.19	56.75	57.24	57.6	58.56	58.2	58.45	60.11	60.55
1000	51.64	53.23	54.27	55.1	56.72	56.23	56.94	57.73	58.3	58.54	59	59.24
1300	51.1	52.92	53.86	54.8	55.13	55.7	56.22	57.02	57.5	57.77	58.29	58.84
1600	49.79	51.76	52.63	53.46	54.23	54.66	55.41	56.04	56.73	56.94	57.47	57.74
2000	48.78	50.63	51.46	52.49	53.54	54.06	54.46	55.05	55.74	55.89	56.38	56.75
2500	46.71	48.29	49.49	51.03	52.07	52.7	53.43	54.11	54.53	54.9	55.24	55.4
3200	43.82	46.09	47.69	49.23	50.32	50.91	51.86	52.72	53.43	53.62	53.74	53.61
4000	40.43	42.63	44.22	45.93	47.05	48.03	49.4	49.76	50.45	51.02	51.48	51.19
5000	35.08	37.91	39.42	40.74	41.69	43.18	45.2	46.11	46.49	46.54	47.24	47.17
6300	26.94	30.22	32.08	33.6	34.82	36.09	39.21	40.06	40.48	40.58	40.55	40.31
8000	0	16.41	20.08	22.85	24.44	26.9	30.78	31.41	32.19	32.27	32.26	31.54
10000	0	0	0	0	0	0	3.93	7.64	9.85	9.13	11.23	2.81
OASPL	65.06	66.43	67.21	67.93	68.62	69.26	69.82	70.34	70.88	71.34	71.91	72.5
PNL	71.89	73.68	74.85	75.82	76.72	77.42	78.2	78.83	79.36	79.73	80.19	80.49

distance: (	1655.07	1732.05	1831.16	1956.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.04	60.38	60.81	61.47	62.44	63.66	64.73	65.24	64.75	62.8	0	126.71
100	60.62	61.47	62.52	63.71	64.91	65.92	66.37	65.88	64.37	61.95	0	127.59
130	59.53	61.04	62.59	64.01	65.26	66.23	66.67	66.24	64.3	60.34	0	127.54
160	62.09	62.84	63.78	64.53	65.07	65.24	64.82	63.6	62.01	59.32	0	127.04
200	62.31	62.57	62.9	63.28	63.62	63.79	62.91	60.67	58.18	55.14	0	125.82
250	62.74	63.1	63.4	63.77	64.59	64.29	62.47	60.41	58.03	54.03	0	126.02
320	62.58	62.91	64.11	63.69	63.53	62.44	60.31	57.56	54.62	50.62	0	125.4
400	62.47	62.74	62.74	62.26	61.69	60.53	58.24	55.54	51.79	47.51	0	124.51
500	61.67	62.23	62.66	61.25	60.36	59.4	57.27	54.07	49.93	45	0	123.7
630	61.03	61.13	61.21	59.99	59.45	57.69	54.96	51.23	46.73	41.95	0	122.8
800	60.48	60.43	60.36	58.92	57.66	55.78	53.16	49.53	45.03	39.74	0	122.09
1000	59.39	59.65	59.15	57.55	56.48	54.56	51.16	47.55	42.69	37.06	0	120.97
1300	58.55	58.39	57.73	56.21	55.29	53.05	49.89	46.11	40.87	34.41	0	120.05
1600	57.64	57.58	56.9	55.09	53.71	51.24	47.67	43.93	38.67	31.85	0	119.04
2000	56.64	56.79	55.53	53.26	51.81	49.4	45.61	41.4	35.88	28.94	0	117.92
2500	55.24	55.15	53.8	51.5	49.74	46.94	42.74	38.1	32.04	24.4	0	116.46
3200	53.2	52.97	51.72	48.68	46.39	43.5	39.04	34.01	27.01	16.72	0	114.6
4000	50	49.37	48.24	44.68	42.14	38.75	33.96	28.47	19.28	0	0	111.58
5000	45.8	44.46	43.16	38.94	35.96	31.89	26.32	17.75	0	0	0	107.08
6300	39.11	37.63	35.53	30.46	26.87	21.1	0	0	0	0	0	100.49
8000	29.45	27.27	23.5	14.67	0	0	0	0	0	0	0	91.36
10000	0	0	0	0	0	0	0	0	0	0	0	88.71
OASPL	72.81	73.17	73.57	73.55	73.84	73.87	73.39	72.44	70.78	67.94	0	136.61
PNL	80.43	80.45	79.89	78.61	78.01	77	74.82	72.37	69.13	64.89	0	79.43

NASA Lewis Allison AST Jet Noise Test 1996

rdg 235
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 914.43
m01 0.01561
pamb 14.4527
tamb 498.695
rhumid 58.02
winds1 0
nprc 1.537
nprb 1.607
ptc 22.2138
ptb 23.2255
wactc 2.722
wactb 18.237
ttc 1321.38
ttb 504.729
ptmix 23.0802
ttmix 621.978
mixpnd 0.747857
grsvlxp 17336.7
badchan [26]
bkgnd 227
escdate 22.Nov.96
esctime 16:07:44
DADSdate 97.08.18
DADStime 16:07:44
btchdate 22.Nov.96
btchtime 16:07:44
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 09:17:09 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	77.03	77.97	78.71	79.28	79.74	80.11	80.48	80.81	81.22	81.73	82.37
100	78.83	79.89	79.48	80.16	81.08	81.48	81.6	81.73	82.08	82.68	83.52
130	79.92	80.57	80.89	80.9	80.65	80.23	80	80.31	81.34	82.79	84.3
160	81.3	81.59	81.69	81.8	82.13	82.79	83.53	83.73	83.8	84.79	86.3
200	82.54	82.71	82.87	83.24	83.64	83.88	84.05	84.31	84.7	85.15	85.64
250	81.63	81.76	81.95	82.29	83.07	83.96	83.72	83.86	85.3	86.25	86.8
320	82.21	82.85	82.93	82.99	83.22	83.6	83.96	84.35	84.78	85.41	86.32
400	81.11	81.65	82.14	82.67	83.1	83.75	84.52	85.36	85.93	86.38	86.86
500	81.24	81.64	81.98	82.37	82.94	83.73	84.4	84.84	85.2	85.73	86.41
630	81.03	82.04	82.71	83	83.39	84	84.79	85.18	85.05	85.4	86.22
800	81.83	82.88	83.04	83.28	83.53	83.87	84.36	84.77	85.32	86.14	86.65
1000	82.71	83.78	84.08	84.08	84.15	84.77	84.53	85.26	85.49	85.98	86.64
1300	82.2	83.07	83.05	82.88	83.05	83.68	84.15	84.5	84.84	85.76	86.43
1600	81.48	82.55	82.59	82.71	82.94	83.44	83.85	84.43	84.67	85.21	85.95
2000	81.24	81.9	81.84	82.05	82.58	83.22	83.67	84.19	84.74	85.22	86.05
2500	79.5	80.58	81.07	81.7	82.51	83.39	83.87	84.18	84.47	85.15	85.88
3200	79.11	79.98	80.56	81.32	82.09	82.85	83.53	84.01	84.3	85.25	85.76
4000	77.93	79.24	79.94	80.63	81.32	82.21	83.3	83.08	83.2	84.39	85.37
5000	76.95	78.53	78.78	78.84	79.24	80.8	82.48	82.19	81.83	83.37	84.7
6300	75.66	77.01	77.34	77.6	78.32	79.79	81.54	81.49	81.35	82.79	83.32
8000	74.6	76.05	76.34	76.55	77.18	78.75	80.81	80.87	80.72	82.25	82.92
10000	72.22	73.13	73.4	74.14	75.31	76.85	77.73	77.73	78	79.53	80.09
OASPL	93.77	94.53	94.79	95.07	95.49	96.14	96.68	97.02	97.38	98.15	98.9

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	83.2	84.25	85.54	87.13	89.04	91.3	93.8	96.18	98.06	99.08	98.86	0	132.77
100	84.61	85.86	87.22	88.71	90.53	92.9	95.66	98.05	99.24	99.2	98.52	0	133.79
130	85.57	86.64	87.59	88.8	90.08	92.33	94.99	97.14	98.78	99.44	98.32	0	133.48
160	87.02	86.72	87.75	89.53	91.38	93.2	95.53	97.4	97.57	97.24	96.79	0	133.27
200	86.28	87.61	89.55	91.03	91.83	93.38	94.87	95.05	95.24	94.38	92.83	0	132.31
250	87.99	89.17	90.31	91.22	92.38	94.11	94.92	94.84	94.12	93.18	91.73	0	132.38
320	86.72	87.69	88.5	91.03	92.31	93.54	93.5	92.53	90.72	89.55	88.04	0	131.24
400	87.9	88.64	89.27	91.17	91.6	92.2	92.18	90.53	89.37	87.74	85.81	0	130.77
500	87.34	88.49	89.9	91.19	90.84	91.59	90.54	89.2	87.68	86.11	83.88	0	130.19
630	87.45	88.01	89.36	89.8	89.54	89.94	89.18	87.69	86.57	84.76	82.71	0	129.49
800	87.08	88.3	89.88	89.72	89.1	89.11	88.03	86.61	85.24	83.3	81.52	0	129.31
1000	87.22	88.26	88.85	88.86	88.41	88.02	86.98	85.63	84.65	82.52	80.31	0	129.08
1300	87.2	88.16	89.15	88.89	87.88	87.49	86.81	84.79	83.37	81.32	79.63	0	128.68
1600	86.68	87.86	88.99	88.48	87.16	86.71	85.64	83.9	82.84	80.97	79.02	0	128.25
2000	86.62	87.45	88.42	88.09	86.55	86.32	85.14	83.12	81.47	79.57	77.76	0	127.9
2500	86.02	87.31	88.21	87.27	85.51	85.34	84.34	82.41	80.93	78.01	76.5	0	127.48
3200	85.99	86.99	87.79	86.7	84.83	84.4	83.13	81.51	80.12	77.32	75.69	0	127.09
4000	85.88	86.31	86.72	85.86	83.81	83.38	82.07	79.9	78.38	75.42	73.83	0	126.27
5000	84.92	84.96	85.24	84.26	81.99	81.91	80.48	78.64	76.69	73.08	71.56	0	125.08
6300	83.5	83.66	83.91	82.57	80.84	80.61	79.02	77.22	74.96	70.93	70.17	0	123.87
8000	83.01	82.89	82.53	81.22	79.58	79.58	77.74	76.43	73.77	69.34	69.09	0	123.03
10000	79.05	79.25	79.47	78.79	77.11	76.51	74.38	72.9	70.83	65.7	64.62	0	120.08
OASPL	99.58	100.47	101.52	102.09	102.38	103.49	104.47	105.31	105.87	105.85	105.03	0	143.53

rdg 235
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
ngbld JER w/ external supplement
mixbld DP20
nozbld BASE
anoz 41.226
amsc 35.02
amixb 78.39
scale 4
vid 914.43
m01 0.01561
pamb 14.4527
tamb 498.695
rhumid 58.02
winds1 0
nprc 1.537
nprb 1.607
ptc 22.2138
ptb 23.2255
wactc 2.722
wactb 16.237
ttc 1321.38
ttb 504.729
ptmix 23.0802
ttmix 821.978
mixpnd 0.747857
grswtp 17336.7
badchan (26)
bkgnd 227
escdate 22.Nov.96
esctime 16:07:44
DADSdate 97.08.18
DADStime 16:07:44
blchdate 22.Nov.96
blchtime 16:07:44
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:17:17 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1586.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	55.24	56.67	57.81	58.7	59.39	59.94	60.38	60.77	61.14	61.55	62.03	62.62	63.35	64.25	65.35	66.67	68.23	69.89	71.27	71.95	71.49	69.41	0	132.68
100	57.01	58.56	58.55	59.55	60.68	61.27	61.49	61.66	61.97	62.47	63.15	63.99	64.93	65.09	66.68	68.12	68.79	71.71	73.09	73.07	71.55	68.99	0	133.65
130	58.06	59.19	58.91	60.24	60.23	59.99	59.85	60.2	61.19	62.54	63.88	64.91	65.66	66.21	66.73	67.59	69.15	70.96	72.11	72.53	71.67	68.84	0	133.25
160	58.34	60.13	60.64	61.07	61.64	62.47	63.32	63.55	63.58	64.47	65.81	66.29	65.67	66.29	67.57	68.8	69.93	71.4	72.26	71.17	69.32	68.92	0	132.95
200	60.46	61.14	61.71	62.4	63.05	63.46	63.74	64.04	64.39	64.74	65.05	65.44	66.45	67.98	68.95	69.14	69.95	70.59	69.72	68.84	68.18	62.66	0	131.87
250	59.36	60.02	60.63	61.26	62.33	63.39	63.26	63.44	64.85	65.69	66.06	67	67.84	68.56	68.96	69.5	70.49	70.4	69.26	67.22	64.65	61.11	0	131.74
320	59.7	60.66	61.4	61.8	62.28	62.84	63.31	63.74	64.13	64.86	65.38	65.52	66.16	67.53	68.52	69.16	69.84	68.68	66.58	63.4	60.51	56.79	0	130.36
400	58.25	59.35	60.27	61.15	61.86	62.7	63.58	64.46	64.98	65.32	65.62	66.4	66.99	66.97	68.31	68.07	67.89	68.69	64.05	61.46	58.02	53.73	0	129.56
500	57.94	58.93	59.73	60.49	61.33	62.33	63.12	63.59	63.91	64.32	64.81	65.45	66.23	67.19	67.91	66.87	66.78	64.7	62.12	59.03	55.54	50.74	0	128.57
630	57.22	58.83	60.01	60.68	61.36	62.18	63.11	63.52	63.35	63.59	64.21	65.15	65.32	66.17	66	65	64.51	62.68	59.85	57.06	53.13	48.24	0	127.41
800	57.48	58.94	59.84	60.48	61.03	61.8	62.21	62.67	63.18	63.87	64.18	64.29	65.12	65.98	65.36	63.98	63.04	60.79	57.95	54.8	50.54	45.64	0	126.73
1000	57.82	59.57	60.36	60.83	61.21	62.05	61.95	62.72	62.9	63.24	63.68	63.95	64.56	64.62	63.95	62.68	61.28	59.03	56.16	53.29	48.66	43.03	0	126.02
1300	56.66	58.26	58.8	59.06	59.59	60.43	61.06	61.46	61.75	62.53	62.96	63.39	63.9	64.32	63.37	61.49	60.04	57.85	54.41	50.94	46.17	40.79	0	125.05
1600	55.27	57.09	57.72	58.32	58.9	59.64	60.2	60.83	61.02	61.41	61.91	62.29	62.99	63.52	62.27	60.03	58.45	55.89	52.51	49.23	44.45	38.47	0	124
2000	54.16	55.62	56.2	56.9	57.81	58.71	59.31	59.66	60.38	60.71	61.28	61.49	61.82	62.14	61	58.49	57.04	54.35	50.43	46.37	41.25	34.99	0	122.88
2500	51.2	53.14	54.33	55.52	56.72	57.88	58.52	58.91	59.13	59.64	59.88	59.83	60.56	60.78	58.99	56.14	54.64	52.01	48.02	43.84	37.3	30.68	0	121.38
3200	49.06	50.67	52.21	53.56	54.78	55.98	56.75	57.29	57.51	58.28	58.5	58.25	58.63	58.64	56.61	53.54	51.62	48.45	44.45	40	33.06	25.43	0	119.45
4000	45.12	47.54	49.13	50.54	51.79	53.03	54.27	54.12	54.19	56.18	55.78	55.54	55.49	55.06	52.83	49.44	47.38	43.85	38.91	33.68	25.62	13.3	0	116.28
5000	39.95	42.66	44.21	45.14	46.18	48.19	50.1	49.85	49.46	50.72	51.63	51.2	50.39	49.56	47.27	43.28	41.08	36.94	31.52	24.75	3.39	0	0	111.42
6300	32.05	35.13	36.84	38.12	39.62	41.68	43.65	43.72	43.46	44.73	44.6	43.91	43.05	42.05	38.81	34.8	32.02	26.74	18.77	0	0	0	0	104.51
8000	18.43	23.95	26.53	28.29	30.07	32.34	34.84	34.83	34.68	35.79	35.82	34.94	33.44	31.22	27.24	22.03	18.34	0	0	0	0	0	0	95.15
10000	0	0	0	0	0	12.55	16.96	17.9	17.87	19.3	18.81	15	9.54	0	0	0	0	0	0	0	0	0	0	78.69
OASPL	69.8	71.01	71.72	72.36	73.03	73.78	74.25	74.68	75.09	75.65	76.23	76.77	77.35	78.08	78.52	78.6	79.26	79.73	79.82	79.3	77.87	75.18	0	142.17
PNL	77.07	78.63	79.47	80.39	81.34	82.35	83.04	83.44	83.72	84.32	84.75	84.95	85.48	85.86	85.04	84.03	83.82	83.03	81.37	79.43	78.79	72.87	0	84.89

NASA Lewis Allison AST Jet Noise Test 1996

rdg	236
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	965.56
m01	0.01138
pamb	14.4577
tamb	497.956
rhumid	59.9
winda1	0
nprc	1.744
nprb	1.82
ptc	25.2142
ptb	26.313
wactc	3.069
wactb	18.568
ttc	1416.14
ttb	506.126
ptmix	26.1572
ttmix	635.203
mixpnd	0.78141
gravixp	20891.8
badchan	(26)
bkgnd	227
escdate	22.Nov.96
esctime	16:23:25
DADSdate	97.08.18
DADStime	16:23:25
btchdate	22.Nov.96
btchtime	16:23:25

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:19:58 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	80.51	81.13	81.52	81.85	82.26	82.87	83.82	84.42	85.2	85.93	86.54	87.06
100	83.68	84.51	85.24	85.88	86.41	86.83	87.17	87.42	87.83	87.91	88.33	88.99
130	84.76	85.58	85.21	84.84	86.45	85.94	85.68	85.96	86.53	87.3	88.18	89.06
160	86.19	86.56	86.38	86.23	86.55	87.19	87.91	88.52	86.93	89.24	89.51	90.98
200	86.07	86.4	86.75	87.18	87.59	88.01	88.85	89.93	90.44	90.23	90.87	91.45
250	86.56	86.55	86.49	86.49	86.84	87.08	87.96	88.5	88.92	89.9	91.02	92.58
320	85.36	85.77	86.36	86.96	87.45	87.65	87.74	88.43	89.26	89.39	90.67	92.43
400	84.78	85.13	85.82	86.51	86.86	87.08	87.76	88.65	89.45	90.3	91.31	92.48
500	85.86	85.81	85.88	86.07	86.56	87.41	88.23	88.7	89.27	89.82	90.21	91.96
630	85.91	86.36	86.62	86.82	87.1	87.8	88.19	88.8	89.26	89.86	90.47	91.71
800	86.14	86.65	87.06	87.4	87.63	87.73	87.97	88.59	89.22	90.21	91.21	92.08
1000	86.91	87.51	87.69	87.72	87.52	87.95	88.57	88.95	89.32	90.29	90.72	92.05
1300	86.86	87.35	87.56	87.86	87.86	88.11	88.09	88.83	89.5	89.88	90.79	92.15
1600	86.84	87.68	87.81	87.72	87.82	87.95	88.47	89.08	89.5	90.17	90.83	92.08
2000	86.96	87.58	87.69	87.89	88.07	87.97	88.43	89.05	89.21	89.73	90.73	91.74
2500	86.81	87.11	87.31	87.97	88.34	88.1	88.56	89	89.17	89.6	90.43	91.71
3200	86.36	87.15	87.38	87.76	87.94	88.14	88.78	89.05	88.97	89.54	90.61	91.68
4000	85.91	87	87.46	87.65	87.43	87.67	88.74	88.67	88.89	89.45	90.13	91.34
5000	85.21	86.36	86.49	86.23	86.06	86.74	87.82	87.98	88.02	88.71	89.6	90.55
6300	83.33	84.99	85.29	85.25	85.02	85.74	87.28	87.54	87.87	88.37	88.62	89.96
8000	81.89	83.56	83.89	83.77	83.55	84.61	86.73	86.75	87.14	87.72	87.98	89.35
10000	79.34	80.35	80.37	80.74	81.38	82.51	83.39	83.45	84.17	84.58	84.69	85.34
OASPL	98.9	99.53	99.76	99.96	100.21	100.52	101.17	101.85	102.09	102.63	103.36	104.6

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165		
roll angle (	0	0	0	0	0	0	0	0	0	0	0		
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL	
80	87.75	88.82	90.53	93.14	96.89	100.47	102.51	103.98	104.95	104.64	0	138.47	
100	90.06	91.75	93.58	95.66	98.91	101.91	104.14	105.29	105.26	104.22	0	139.65	
130	89.94	90.7	91.95	94.59	98.02	101.13	103.5	104.86	104.95	103.6	0	139.08	
160	93.47	93.84	94.78	97.38	100.33	102.68	104.32	105.22	106.57	105.76	0	140.37	
200	92.65	94.1	95.02	96.49	98.58	100.54	101.46	101.5	100.38	99.91	0	137.82	
250	94.15	95.07	95.96	97.79	99.97	101.19	101.18	100.84	100.65	99.75	0	138.15	
320	92.95	94.18	95.79	96.89	98.95	99.4	98.63	97.81	96.54	95.44	0	136.54	
400	93.55	94.43	95.87	97.42	97.84	97.41	97.24	95.95	93.37	91.7	0	135.85	
500	92.7	94.24	95.41	96.09	96.86	96.49	94.78	93.4	91.64	89.85	0	134.91	
630	93.28	94.44	94.83	95.34	95.43	94.51	93.48	91.92	90.2	88.3	0	134.38	
800	93.15	94.04	94.6	94.5	94.26	93.14	91.78	90.47	88.35	86.15	0	133.98	
1000	93.27	94.17	93.96	93.47	93.28	92.12	90.79	88.97	87.13	84.86	0	133.66	
1300	93.19	93.8	93.63	92.92	92.31	91.45	90.14	88.51	86.95	84.48	0	133.39	
1600	93.58	94.15	93.15	92.52	92.17	91.15	89.44	87.55	85.5	83.2	0	133.37	
2000	93.47	94.38	93.25	92.14	91.46	90.42	88.83	87.1	85.12	82.68	0	133.21	
2500	93.56	94.15	92.82	91.58	90.82	89.87	88.05	86.53	84.55	81.44	0	132.97	
3200	93.48	93.77	92.43	91.3	90.55	88.87	87.05	85.77	84.14	80.51	0	132.81	
4000	92.78	92.84	91.59	90.64	89.7	87.78	85.94	84.89	82.52	78.92	0	132.26	
5000	91.75	92.15	90.58	89.45	88.41	86.24	84.32	82.8	80.21	77.04	0	131.31	
6300	91.11	91.03	89.19	88.27	87	84.87	82.89	80.69	78.31	75.88	0	130.42	
8000	90.39	90.22	88.12	87.41	86.27	83.51	81.32	79.32	77.16	74.65	0	129.56	
10000	87.02	87.24	85.87	85.25	83.28	80.19	77.41	75.64	73.74	70.37	0	126.47	
OASPL	105.92	106.7	106.93	107.73	109.24	110.61	111.63	112.28	112.23	111.58	0	149.17	

NASA Lewis Allison AST Jet Noise Test 1996

rdg	236
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	965.56
m01	0.01138
pamb	14.4577
tamb	497.956
rhumid	59.9
winds1	0
nprc	1.744
nprb	1.82
ptc	25.2142
ptb	26.313
wactc	3.089
wactb	18.568
ttc	1416.14
ttb	506.126
ptmix	26.1572
ttmix	835.203
mixpnd	0.78141
grsvop	20891.8
badchan	(26)
bkgnd	227
escdate	22-Nov-96
esctime	16:23:25
DADSdate	97.08.18
DADStime	16:23:25
btchdate	22-Nov-96
btchtime	16:23:25

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:20:08 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.73	59.83	60.62	61.26	61.92	62.7	63.55	64.38	65.13	65.75	66.2	66.49	66.65	67.52	68.75	70.77	73.81	76.57	77.6	77.88	77.37	75.19	0	138.38
100	61.86	63.17	64.31	65.26	66.03	66.63	67.06	67.35	67.53	67.7	67.96	68.37	69.13	70.42	71.76	73.25	75.8	77.95	78.16	79.12	77.6	74.68	0	139.51
130	62.89	64.2	64.23	64.16	66.03	65.69	66.54	65.84	66.38	67.05	67.76	68.42	68.96	69.32	70.07	72.12	74.84	77.11	78.47	78.61	77.18	73.92	0	138.83
160	64.23	65.1	65.34	65.5	66.06	66.88	67.7	68.33	68.71	68.92	69.02	70.25	72.42	72.38	72.83	74.83	77.06	78.55	79.17	78.83	77.64	75.88	0	140.02
200	64	64.82	65.59	66.35	67	67.6	68.54	69.66	70.13	69.82	70.28	70.61	71.49	72.52	72.94	73.81	75.16	76.25	76.13	74.9	72.22	69.75	0	137.35
250	64.29	64.8	65.17	65.5	65.9	66.51	67.5	68.07	68.46	69.33	70.28	71.59	72.82	73.32	73.7	74.9	76.35	76.67	75.57	74.04	72.12	69.11	0	137.45
320	62.86	63.79	64.81	65.77	66.5	66.89	67.1	67.81	68.6	68.63	69.74	71.23	71.41	72.21	73.31	73.75	75.05	74.58	72.88	70.5	67.51	64.2	0	135.62
400	61.92	62.81	63.95	65	65.63	65.99	66.8	67.74	68.51	69.24	70.07	70.97	71.67	72.12	73.11	73.91	73.52	72.13	70.8	68.08	63.69	59.82	0	134.59
500	62.37	63.09	63.63	64.19	64.95	66	66.94	67.45	67.99	68.21	68.6	70.07	70.45	71.53	72.12	72.12	72.05	70.65	67.7	64.78	61.06	56.69	0	133.23
630	62.1	63.16	63.92	64.5	65.07	65.78	66.49	66.95	67.56	68.03	68.44	69.4	70.58	71.24	71.14	70.8	70	67.99	65.63	62.4	58.56	53.84	0	132.23
800	61.79	62.93	63.85	64.6	65.14	65.46	65.82	66.49	67.06	67.94	68.73	69.29	69.95	70.34	70.25	69.37	68.19	65.91	63.14	60.04	55.8	50.25	0	131.33
1000	61.99	63.26	63.96	64.45	64.56	65.22	65.96	66.4	66.73	67.57	67.77	68.77	69.57	69.94	69.07	67.73	66.51	64.16	61.31	57.58	53.24	47.6	0	130.55
1300	61.33	62.53	63.3	63.86	64.39	64.86	64.99	65.76	66.41	66.64	67.31	68.34	68.93	68.96	68.11	66.53	64.85	62.69	59.76	56.08	51.85	45.66	0	129.72
1600	60.62	62.2	62.93	63.31	63.76	64.16	64.83	65.49	65.84	66.37	66.78	67.68	68.71	68.87	66.95	65.4	63.92	61.49	58.05	53.96	48.99	42.8	0	129.1
2000	59.88	61.3	62.05	62.73	63.3	63.46	64.08	64.74	64.87	65.23	65.96	66.59	67.61	68.09	66.15	64.06	62.17	59.63	56.17	52.03	46.85	39.94	0	128.15
2500	58.3	59.67	60.56	61.77	62.56	62.6	63.21	63.71	63.84	64.09	64.64	65.51	66.82	66.74	64.33	62.21	60.13	57.33	53.6	49.4	43.9	35.76	0	126.65
3200	56.26	58.01	59.02	60	60.63	61.15	61.97	62.31	62.16	62.54	63.3	64.1	65.12	64.64	62.34	60.01	57.74	54.21	50.01	45.63	39.83	30.33	0	125.09
4000	53.05	55.27	56.86	57.56	57.85	58.39	59.72	59.74	59.86	60.2	60.5	61.19	61.99	61.16	58.78	56.41	53.71	49.56	44.95	40	32.92	21.51	0	122.15
5000	48.15	50.74	51.92	52.5	52.97	54.06	55.37	56.64	55.63	56.03	56.52	56.85	57.21	56.47	53.52	50.66	47.53	42.66	37.22	30.99	21.64	0	0	117.55
6300	39.7	43.09	44.76	45.8	46.3	47.6	49.48	49.75	49.92	50.12	49.83	50.34	50.48	49.04	45.46	42.42	38.33	32.76	25.96	13.56	0	0	0	110.88
8000	28.04	32.19	34.45	35.8	36.53	38.2	40.74	40.96	41.13	41.3	40.93	41.38	40.87	38.89	34.49	30.77	25.66	15.07	0	0	0	0	0	101.51
10000	0	0.66	13.8	17.35	19.96	23.23	25.37	25.58	26.21	25.98	24.96	24.39	23.71	20.53	11.42	0	0	0	0	0	0	0	0	85.19
OASPL	74.29	75.35	76.08	76.66	77.34	77.84	78.46	79.12	79.59	79.96	80.56	81.49	82.38	82.88	83.13	83.8	85.05	85.95	86.19	85.72	84.25	81.7	0	147.84
PNL	82.74	84.13	85.01	85.89	86.57	86.95	87.69	88.23	88.52	88.88	89.43	90.3	91.31	91.41	90.21	89.8	89.79	89.28	88.08	86.56	84.18	81.01	0	90.79

NASA Lewis Allison AST Jet Noise Test 1998

rdg	240
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acour	Kathy Boyd
lead_engin	Ray Castner
nacrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.228
ambic	35.02
ambxb	78.38
scale	4
vid	565.06
m01	0.20873
pamb	14.4192
tamb	496.547
rhumid	63.22
windal	0
nprc	1.174
nprb	1.207
ptc	16.9281
ptb	17.404
wactc	1.635
wactb	9.346
ttc	1119.37
ttb	504.903
ptmix	17.3331
ttmix	596.393
mbrpnd	0.471954
grwtxp	8205.14
badchan	{26}
bkgnd	228
secdate	22.Nov.98
sectime	17:02:05
DADSdate	22.Nov.98
DADStime	17:02:05
btchdate	22.Nov.98
btchtime	17:02:05

**Scenario. 150 foot arc; 77F, 70%, Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:02:39 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (ft)	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency (	55	60	65	70	75	80	85	90	95	100	105	110
80	55.3	55.47	56.2	57.64	59.01	58.73	60.2	60.58	60.91	61.22	61.51	61.77
100	58.39	57.14	58.09	60.94	61.25	60.85	61.35	61.88	61.88	62	62.09	62.2
130	58.18	58.33	59.42	59.82	61.37	61.49	60.42	60.52	61.43	60.98	61.09	61.64
160	65.6	56.36	59.5	60.03	61.41	61.84	61.72	61.21	61.56	61.94	62.2	63.25
200	58.02	63.04	63.28	63.29	64.58	65.32	65.38	63.98	62.88	64.7	66.72	68.23
250	63.8	66.29	67.13	67.87	68.24	68.17	68.14	68.36	68.94	69.71	70.43	71.24
320	64.42	66.86	68.04	68.45	68.48	68.42	68.48	68.69	69.18	69.81	70.54	71.29
400	62.46	65.44	66.67	67.1	67.34	67.74	68.4	68.92	69.45	70.02	70.52	71.05
500	63.18	66.38	67.46	67.8	68.15	68.54	68.98	69.44	70.02	70.87	71.38	72.08
630	63.99	67.35	68.23	68.3	68.52	68.99	69.8	70.21	70.7	71.02	71.2	71.48
800	63.43	66.4	66.73	66.55	67.09	67.91	68.72	69.48	70.18	70.52	70.51	70.71
1000	63.16	65.53	66.02	66.18	66.81	67.78	68.81	69.72	70.38	70.74	70.85	70.93
1300	61.89	64.32	64.88	65.41	66.08	66.91	67.86	68.54	68.76	68.53	68.15	68.26
1600	61.2	63.58	64.06	64.26	64.9	65.8	66.56	67.02	67.19	67.2	67.36	67.81
2000	60.65	63.05	63.77	64.09	64.75	65.72	66.79	67.41	67.38	67.2	67.13	67.19
2500	60.19	62.63	63.52	64.11	65.04	66.2	67.35	67.69	67.81	67.65	67.54	67.78
3200	59.84	62.86	63.75	64.58	65.64	67.05	68.18	68.17	68.24	68.45	68.55	68.85
4000	58.49	61.85	63.41	64.38	65.58	66.68	67.87	67.79	67.79	68.12	68.51	69.07
5000	57.61	61.29	63.04	63.84	64.68	65.97	67.56	67.58	67.42	67.88	68.29	68.98
6300	57.56	60.98	62.90	63.7	64.74	66.4	67.68	67.47	67.77	68.43	67.98	68.47
8000	57.77	61.15	63.14	64.1	65.21	66.67	67.93	67.69	68.18	68.87	68.65	68.93
10000	57.32	60.29	61.82	63.04	64.65	65.98	66.06	65.75	66.22	66.72	66.72	66.27
OASPL	74.85	77.14	78.09	78.57	79.21	79.83	80.66	80.95	81.29	81.69	81.95	82.4

distance: (ft)	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency (	115	120	125	130	135	140	145	150	155	160	165	PWL
80	62.02	62.26	62.5	62.74	62.98	63.26	63.58	0	0	0	0	103.57
100	62.37	62.63	62.99	63.49	64.04	64.49	64.8	0	0	0	0	104.59
130	62.15	62.48	63.26	63.78	63.82	64.33	65.82	66.37	66.25	62.62	0	105.15
160	63.82	64.76	65.23	65.85	66.4	65.9	65.38	65.21	65.24	62.17	0	106.22
200	68.81	68.99	68.95	68.87	68.93	69.11	69.07	68.37	67.29	61.66	0	109.57
250	72.05	72.68	73.1	73.34	73.38	73.18	72.94	72.52	71.8	70.86	0	113.56
320	71.98	72.49	72.84	72.96	72.82	72.41	71.74	70.82	69.66	65.83	0	113.3
400	71.53	71.9	72.09	71.82	71.02	69.69	68.75	67.83	66.93	64.9	0	112.42
500	72.71	73.2	73.48	73.49	73.12	72.29	71.03	69.65	68.32	66.92	0	113.83
630	72.04	72.72	73.28	73.38	72.84	71.68	70.08	68.5	67.24	66.37	64.98	113.55
800	71.32	71.98	72.41	72.25	71.27	69.61	67.81	66.15	64.82	63.92	62.56	112.51
1000	70.91	70.79	70.85	70.73	69.75	67.78	65.27	63.72	63.27	63.1	63.15	111.95
1300	68.59	69.24	69.81	69.48	68	66.03	64.33	63.06	62.2	61.76	61.93	110.36
1600	68.42	68.68	68.94	68.59	67.17	65.23	63.33	61.87	60.94	60.54	60.89	109.41
2000	67.65	67.99	67.85	67.35	66.12	64.17	62.13	60.35	58.98	58.27	58.59	108.98
2500	68.02	67.85	67.63	66.94	65.32	63.22	61.22	59.58	58.4	57.88	58.35	109.11
3200	68.66	68.38	68.21	67.54	66	63.67	61.79	59.92	58.44	57.78	58.08	109.78
4000	68.7	67.85	67.62	67.31	66.04	63.97	61.61	59.43	57.77	56.99	57.24	109.51
5000	68.56	67.78	67.44	66.73	65.21	63.33	61.2	59.15	57.51	56.75	56.92	109.17
6300	68.52	68.12	67.65	66.55	64.89	63.25	61.33	59.41	57.91	57.3	57.23	109.21
8000	68.87	68.35	67.94	66.76	64.96	63.33	61.37	59.28	57.61	57.01	56.88	109.55
10000	66.54	66.76	66.85	65.93	63.92	61.75	59.85	57.78	55.75	54.93	55.07	107.89
OASPL	82.77	83.02	83.22	83.07	82.41	81.44	80.45	79.24	78.28	76.5	71.52	123.95

NASA Lewis Allison AST Jet Noise Test 1996

rdg	240
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	565.08
m01	0.20673
pamb	14.4192
tamb	498.547
rhumid	63.22
winds1	0
nprc	1.174
nprb	1.207
ptc	16.9281
ptb	17.404
wactc	1.635
wactb	9.346
ttc	1119.37
ttb	504.903
ptmix	17.3331
ttmix	598.393
mixpnd	0.471954
gravixp	6205.14
badchan	(26)
bkgnd	228
escdate	22.Nov.96
esctime	17:02:05
DADSdate	22.Nov.96
DADStime	17:02:05
bichdate	22.Nov.96
bichtime	17:02:05

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 01:02:46 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	36.89	38.27	38.17	38.65	38.43	39.02	41.89	40.53	38.98	40.88	40.25	39.83	39.6	39.47	39.37	41.2	40.52	39.49	38.16	0	0	0	0	103.43
100	34.94	35	38.29	39.38	40.38	39.34	40.56	41.61	41.03	40.49	40.14	41.51	41.85	41.28	40.72	39.82	40.95	40.37	40.85	37.16	35.09	0	0	104.43
130	34.91	37.88	38.08	38.47	39.85	40.05	41.82	40.4	41.18	41.47	40.77	40.48	40.43	42.53	42	41.41	40.86	39.87	40.86	39.49	37.7	32.53	0	104.93
160	43.16	38.26	40.56	41.18	43.74	44.07	45.19	41.03	40.91	42.83	42.98	42.89	44.4	44.47	43.98	44.96	44.32	43.48	41.89	39.87	39.35	25.47	0	107.37
200	37.91	41.82	43.12	43.74	46.29	45.98	47.74	43.7	42.14	44.47	45.74	47.29	47.71	48.24	47.72	47.08	47.69	46.6	45.53	43.98	43.11	40.17	0	110.48
250	43.15	46	47.95	48.62	48.79	48.71	48.31	47.93	49.48	49.98	51.18	51.62	52.58	53.04	52.66	51.85	50.91	49.28	47.62	45.22	42.06	38.04	0	114.19
320	40.1	42.74	43.87	44.32	45.06	46.25	47.02	48.09	48.13	48.54	48.29	48.52	48.36	47.8	48.14	47.5	46.86	45.05	43.39	41.02	38.81	33.77	0	110.73
400	38.24	43.18	45	45.88	46.38	46.72	47.4	47.99	48.64	49.16	49.68	50.02	50.18	49.98	49.68	49.16	47.71	46.2	44.04	41.38	38.18	34.72	0	111.83
500	40.52	44.53	45.89	46.32	46.91	47.47	48.05	48.16	49.03	49.91	50.6	51.03	51.09	51.02	50.6	49.85	48.58	46.51	43.51	40.47	38.98	32.97	25.98	112.52
630	39.22	43.08	44.09	44.38	44.95	45.83	46.79	48.58	48.81	49.08	49.01	48.69	49.06	49.08	48.73	47.7	45.99	43.52	40.58	37.15	33.72	30.11	25.12	110.81
800	38.83	41.49	42.31	42.61	43.44	44.9	46.16	47.41	47.79	47.47	47.34	47.54	47.43	47.68	47.48	46.8	44.76	41.43	37.43	33.81	30.82	27.52	22.73	109.42
1000	36.98	40.35	41.39	42.19	43.04	43.81	44.79	47.17	47.75	47.83	47.38	46.83	46.56	45.99	45.63	44.32	41.95	38.71	35.32	31.89	28.56	24.53	19.69	108.43
1300	35.37	38.27	39.48	40.12	40.93	42.09	42.93	45.51	45.62	45.15	44.44	44.28	44.05	43.98	43.62	42.55	38.91	36.52	33.07	29.82	26.49	22.45	16.29	106.24
1600	33.65	36.97	38.12	38.84	39.98	41.19	42.46	43.42	43.48	43.48	43.41	43.38	43.31	42.79	42.21	40.92	38.47	34.95	31.22	27.31	23.01	17.81	0	104.89
2000	32.13	35.28	36.79	37.63	39.12	40.57	41.82	43.1	42.99	42.58	42.19	41.99	42.07	41.74	40.58	38.71	36.15	32.82	28.83	24.67	20.15	0	0	103.78
2500	29.84	33.32	35.12	36.58	38.29	39.99	41.3	42.6	42.52	42.29	42.17	42.09	41.88	40.72	39.65	37.88	34.9	31.21	27.19	22.72	12.59	0	0	103.17
3200	26.45	30.47	32.86	34.15	35.83	37.31	38.86	41.43	41.43	41.52	41.3	41.25	40.49	39.31	38	36.29	33.56	29.48	24.8	17.82	0	0	0	101.75
4000	19.4	25.85	28.41	30.18	31.72	33.29	35.23	38.85	38.74	38.8	38.94	39.14	37.94	36.13	34.78	33.02	29.88	25.77	18.7	0	0	0	0	98.86
5000	0	13.51	20.59	23.19	25.51	27.79	29.57	35.23	34.98	35.16	35.09	35.07	33.87	32.27	30.5	27.84	23.78	18.4	0	0	0	0	0	94.62
6300	0	0	0	0	4.97	15.58	19.61	28.61	29.92	30.38	29.52	29.31	28.31	26.51	24.04	18.61	0	0	0	0	0	0	0	88.7
8000	0	0	0	0	0	0	0	19.31	20.12	21.05	19.28	17.82	14.03	0	0	0	0	0	0	0	0	0	0	77.64
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	50.72	53.21	54.64	55.31	56.13	56.66	57.54	57.99	58.37	58.74	58.99	59.24	59.46	59.48	59.12	58.4	57.3	55.52	53.69	51.17	48.93	44.53	30.19	121.4
PNL	56.61	59.9	61.56	62.51	63.77	65	66.26	66.62	66.72	66.9	66.83	66.88	66.59	66.08	65.46	64.4	62.58	60.01	56.86	53.2	49.14	43.39	28.31	88.24

NASA Lewis Allison AST Jet Noise Test 1996

rdg	239
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	811.26
m01	0.20752
pamb	14.4197
tamb	496.379
rhumid	62.32
winds1	0
nprc	1.393
nprb	1.44
ptc	20.0866
ptb	20.7644
wactc	2.508
wactb	13.689
ttc	1161.03
ttb	505.145
ptmix	20.6595
ttmix	609.731
mixpnd	0.670111
grsvlxp	13138.4
badchan	(26)
bkgnd	228
escdate	22.Nov.96
esctime	16:50:25
DADSdate	97.08.20
DADStime	16:50:25
btchdate	22.Nov.96
btchtime	16:50:25

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 14:18:15 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	67.18	68.38	67.86	67.12	67.01	67.43	68.15	69.02	69.89	70.64	71.23	71.74
100	68.51	69.6	70.15	70.36	70.38	70.32	70.3	70.38	70.83	71.09	71.75	72.54
130	67.48	68.61	69.41	69.98	70.34	70.51	70.5	70.34	70.07	69.81	70.15	71.81
160	71.27	69.74	70.61	70.86	70.83	71.07	71.48	71.99	72.55	73.11	73.86	74.19
200	69.24	71.77	71.78	72.32	73.04	73.17	72.7	72.5	72.57	73.13	73.92	74.66
250	70.11	71.56	72.44	72.99	73.38	73.7	73.99	74.31	74.71	75.18	75.73	76.35
320	72.43	74.07	74.93	75.24	75.22	75.14	75.12	75.16	75.29	75.62	76.26	77.06
400	71.53	73.1	73.54	73.65	73.89	74.26	74.88	75.1	75.53	76.05	76.73	77.24
500	72.11	74.43	75.06	74.93	74.96	75.38	75.96	76.25	76.49	76.85	77.31	77.69
630	72.15	74.3	75.19	75.56	75.88	76.19	76.4	76.53	76.82	77.06	77.17	77.55
800	73.56	75.59	75.54	75.65	75.98	76.44	77.07	77.67	78.2	78.39	78.21	78.16
1000	73.97	75.27	75.49	75.65	75.99	76.47	76.94	77.26	77.61	77.89	78.28	78.47
1300	74.2	75.3	75.32	75.82	76.42	76.58	76.61	76.85	77.06	77	77.13	76.94
1600	73.37	75.06	75.68	76.09	76.2	76.13	76.23	76.35	76.29	76.38	76.81	77.11
2000	73.03	74.76	75.66	76.34	76.44	76.52	76.74	76.91	76.84	76.71	76.7	76.86
2500	71.81	74.37	75.07	75.87	76.5	76.36	76.6	76.91	77.07	76.97	76.7	76.58
3200	71.42	73.62	75.06	76.45	76.94	76.83	77.09	77.4	77.8	77.77	77.49	77.09
4000	70.48	72.88	74.54	76.22	76.63	76.69	77.03	77.1	77.77	77.6	77.48	77.13
5000	68.39	72.13	73.68	75.05	75.04	75.49	76.18	76.61	77.15	76.91	76.9	76.7
6300	67.68	71.34	73.05	74.15	74.02	74.39	75.56	76.17	76.85	76.42	75.87	75.86
8000	67.46	70.75	72.59	73.5	73.35	73.6	75.04	75.94	76.48	76.14	75.58	75.53
10000	65.94	68.77	70.01	71.17	71.67	71.6	72.27	73.45	73.87	73.06	72.44	72.22
OASPL	84.68	86.51	87.26	87.68	88.13	88.31	88.71	89.02	89.37	89.43	89.54	89.72

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.27	72.89	73.64	74.58	75.65	76.7	77.85	78.45	79.14	79.86	80.91	118.17
100	73.35	74.12	74.76	75.3	75.75	76.31	77.1	78.26	79.65	81.01	82.02	116.91
130	73.19	73.94	74.51	75.17	76.01	77.05	78.24	78.54	80.86	82.1	83.2	117.27
160	74.69	75.2	75.73	76.31	76.91	77.45	77.93	78.35	78.72	79.11	78.19	117.47
200	75.22	75.96	76.43	76.51	76.66	77.17	77.93	78.83	79.57	79.78	76.28	117.99
250	76.96	77.45	77.82	78.33	79.07	79.69	79.76	79.75	79.77	79.4	74.56	119.35
320	77.65	78.04	78.32	78.46	78.64	78.9	78.67	78.05	77.22	76.27	73.5	119.55
400	77.58	78.38	78.55	78.42	78.06	77.37	77.04	76.91	76.46	75.52	71.69	119.14
500	78.2	78.62	78.79	78.64	78.18	77.47	76.8	75.64	74.61	73.54	71.73	119.62
630	78	78.47	78.5	77.94	77.06	76.15	75.36	74.51	73.47	72.38	71.56	119.49
800	78.33	78.97	79.09	78.24	76.97	75.93	74.9	74.03	73.31	72.32	71.38	120.07
1000	77.93	78.03	78.33	77.73	76.41	75.26	74.5	73.64	72.35	71.02	70.08	119.73
1300	76.92	77.48	77.65	76.77	75.52	74.7	73.77	72.73	71.69	70.59	69.82	119.17
1600	77.46	78	77.9	76.76	75.24	74.06	73.11	72.08	70.91	69.85	69.23	119.01
2000	77.38	78.1	77.74	76.19	74.57	73.56	72.81	71.94	70.84	69.7	68.94	119.07
2500	77.02	77.82	77.31	75.58	73.9	72.76	71.85	70.65	69.78	68.94	68.56	118.83
3200	76.77	77.3	76.77	75.27	73.8	72.57	71.32	70.02	68.81	67.95	67.67	119.04
4000	76.88	76.59	76.11	74.93	73.26	71.77	70.42	69.11	67.91	67.09	66.93	118.78
5000	76.37	76.03	75.21	73.85	72.22	70.66	69.31	68.05	66.84	66.03	65.86	117.97
6300	75.51	75.02	73.95	72.59	71.17	69.6	68.25	67.04	65.84	64.94	64.64	117.18
8000	75.33	74.51	72.84	71.43	70.34	68.77	67.09	66.44	64.7	63.53	63.27	116.7
10000	71.97	71.16	69.7	69.34	68.55	65.57	64.53	63.84	61.69	59.77	59.28	113.98
OASPL	89.92	90.31	90.28	89.8	89.31	89.06	88.95	88.98	89.13	89.33	89.01	131.93

NASA Lewis Allison AST Jet Noise Test 1996

rdg 239
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
ngbld JER w/ external supplement
mxbld DP20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 611.26
m01 0.20752
pamb 14.4197
tamb 496.379
rhumid 62.32
winds1 0
nprc 1.393
nprb 1.44
ptc 20.0866
ptb 20.7644
wactc 2.506
wactb 13.689
ttc 1181.03
ttb 505.145
ptmix 20.6595
ttmix 609.731
mixpnd 0.670111
grsvlxp 13136.4
badchan (26)
bkgnd 228
escdate 22.Nov 96
esctime 16:50:25
DADSdate 97.06.20
DADStime 16:50:25
btchdate 22.Nov 96
btchtime 16:50:25
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 14:18:24 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	44.75	48.77	48.97	48.86	48.66	48.42	50.64	48.98	47.94	50.91	50.81	50.86
100	45.76	46.13	48.76	49.41	49.9	49.5	50.63	50.31	49.68	49.31	49.37	51.63
130	46.6	47.63	48.13	50.09	50.2	50.03	51.42	50.22	49.72	51.19	51.33	51.78
160	49.41	48.36	50.36	50.51	52.44	52.38	52.6	51.82	51.86	53.32	53.43	53.38
200	47.48	49.67	51.02	51.37	52.53	52.67	53.72	52.23	51.66	52.3	52.7	53.66
250	49.05	51.37	53.34	54.36	54.58	54.63	54.86	53.98	55.09	55.32	56.42	57.46
320	49.46	50.95	51.59	51.93	52.53	53.19	53.51	54.54	54.52	54.86	54.55	54.74
400	48.28	51.12	52.4	52.9	53.17	53.74	54.61	54.19	54.78	55.21	55.72	56
500	48.57	51.48	52.53	52.99	53.74	54.36	54.66	54.99	55.25	55.68	56.07	56.04
630	48.15	50.93	52.02	52.71	53.39	53.98	54.9	54.88	55.07	55.52	55.5	55.52
800	48.97	51.45	51.68	51.99	52.66	53.59	54.28	55.57	56.03	55.75	55.65	55.61
1000	48.5	50.41	51.26	52.21	52.89	53.16	53.63	54.71	54.88	54.81	54.62	54.27
1300	47.9	49.77	50.71	51.65	52.34	52.53	52.7	53.8	53.99	53.79	53.72	53.34
1600	45.86	48.62	50.07	51.24	51.75	51.98	52.36	52.75	52.6	52.62	52.7	52.57
2000	44.31	46.81	48.29	49.57	50.42	50.89	51.23	52.59	52.52	52.19	51.9	51.59
2500	41.4	44.91	46.61	48.38	49.51	49.76	50.23	51.62	51.6	51.65	51.28	50.75
3200	37.87	41.42	43.82	46.2	47	47.41	47.97	50.66	51	50.82	50.16	49.33
4000	32.39	36.66	39.35	41.68	42.42	43	43.88	48.14	48.75	48.39	47.94	47.11
5000	23.47	29.25	32.22	34.41	35.25	36.34	37.84	44.25	44.65	44.06	43.64	42.76
6300	0	14.23	21.78	24.67	25.69	26.93	28.92	38.39	39	38.3	37.25	36.57
8000	0	0	0	0	0	0	0	30.07	30.49	29.86	28.23	26.94
10000	0	0	0	0	0	0	0	0	1.17	0	0	0
OASPL	59.68	61.78	62.95	63.71	64.36	64.71	65.31	65.63	65.82	66.09	66.2	66.37
PNL	68.03	70.6	72.1	73.28	74.08	74.42	75	75.41	75.67	75.65	75.4	75.14

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.02	51.22	51.4	53.68	53.03	52.26	51.72	51.33	50.97	50.31	48.16	116.07
100	52.15	52.22	52.09	51.54	53.21	53.04	52.94	52.81	52.46	51.56	49.89	116.7
130	51.94	53.36	52.93	52.62	52.33	52.28	53.56	53.01	51.98	50.37	48.25	116.78
160	54.01	53.64	53.49	54.3	53.75	53.16	52.49	51.74	51.74	49.82	46.52	117.5
200	53.9	54.81	54.29	53.79	55.06	54.96	54.09	52.97	52.02	49.77	42.27	118.02
250	57.51	57.8	57.43	56.81	56.28	55.33	54.25	52.24	49.57	46.36	41.41	119.77
320	55.36	55.01	55.38	54.68	54.02	52.7	51.36	49.48	47.57	44.52	35.61	117.85
400	56.16	56.33	55.94	55.32	53.77	52.3	50.45	48.25	45.4	41.82	36.64	118.23
500	55.83	55.72	55.32	54.27	52.77	50.78	48.47	46.14	43.07	39.31	34.71	117.98
630	55.52	55.44	54.89	53.43	51.36	49.22	46.96	44.41	41.46	37.75	32.7	117.51
800	54.85	54.95	54.37	52.77	50.51	48.35	46.19	43.52	40.02	35.56	29.89	117.31
1000	53.64	53.32	53.04	51.35	49.04	46.91	44.49	41.5	37.79	33.14	27.4	116.32
1300	53.04	52.84	52.11	50.42	47.9	45.46	42.97	40	38.2	31.48	25.31	115.49
1600	52.67	52.76	51.77	49.51	46.76	44.23	41.63	38.44	34.32	29.19	22.32	114.73
2000	51.53	51.67	50.44	47.75	44.94	42.4	39.67	36.2	31.86	26.36	18.44	113.67
2500	50.31	50.16	48.75	45.92	43.02	40.27	37.14	33.32	28.55	22.59	0	112.55
3200	48.53	48.14	46.62	44.08	40.96	37.55	33.72	28.36	24.07	10.46	0	110.89
4000	46.07	44.82	43.03	40.31	36.92	33.28	29.12	23.8	10.97	0	0	107.9
5000	41.52	40.03	37.69	34.56	30.83	26.39	19.83	0	0	0	0	103.17
6300	35.12	33.17	30.27	26.56	21.18	1.43	0	0	0	0	0	96.73
8000	25	21.72	14.08	0	0	0	0	0	0	0	0	87.34
10000	0	0	0	0	0	0	0	0	0	0	0	85.4
OASPL	66.34	66.42	65.99	65.23	64.4	63.38	62.46	61.23	60.04	58.2	55.06	129.14
PNL	74.8	74.62	73.56	71.59	69.67	67.75	65.87	63.36	60.83	56.98	50.22	74.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	238
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	DP20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	917.16
m01	0.20697
pamb	14.4182
tamb	496.962
rhumid	62.12
winds1	0
nprc	1.544
nprb	1.609
ptc	22.2617
ptb	23.1989
wactc	2.73
wactb	16.112
ttc	1324.96
ttb	506.096
ptmix	23.0631
ttmix	624.741
mixpnd	0.74843
gravisp	17281.1
badchan	[23,26]
bkgnd	228
escdate	22.Nov.96
esctime	16:35:38
DADSdate	97.08.18
DADStime	16:35:38
btchdate	22.Nov.96
btchtime	16:35:38

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:09:30 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.31	74.17	74.25	74.11	74.07	74.16	74.39	74.72	75.16	75.69	76.32	77.03
100	74.48	75.54	75.89	75.55	75.47	75.5	75.68	75.87	76.02	76.41	77.19	78.2
130	76.47	74.75	73.67	75.48	75.91	75.85	75.89	75.57	75.69	76.29	77.24	77.62
160	76.07	76.45	76.57	77.03	76.51	76.76	77.33	77.69	77.94	78.02	78.42	79.74
200	75.78	77.23	77.46	77.16	77.16	78	78.02	78.36	78.91	79.62	80.17	79.84
250	76.16	77.1	77.13	76.95	77.01	77.6	78.43	78.8	78.75	79.49	80.97	81.85
320	77.83	77.91	78.72	78.95	78.44	78.38	78.85	79.47	79.95	80.23	80.28	80.84
400	76.6	77.64	78.04	78.1	78.38	79.28	79.7	80.13	80.78	81.14	81.19	81.75
500	77.57	79.14	79.07	79.11	79.51	80.04	80.36	80.14	80.47	81.38	81.07	81.51
630	77.46	79.44	79.91	79.93	80.34	80.6	80.56	80.37	80.43	80.59	81.31	82.03
800	79.82	81.02	80.65	80.46	80.96	81.35	81.43	81.27	80.97	81.31	82.31	82.51
1000	81.31	82.81	82	82	81.95	81.84	81.94	81.93	81.65	81.67	82.19	82.46
1300	81.52	82.51	81.99	81.86	81.89	81.37	81.39	81.3	81.23	81.55	82.05	82.67
1600	81.25	81.08	81.15	81.09	80.49	80.18	81.11	81.25	81.44	81.73	82.03	82.67
2000	80.36	79.91	80.03	80.7	81.19	81.21	82.08	81.66	81.65	81.68	81.7	82.5
2500	78.83	78.82	79.48	80.51	81.34	81.62	82.03	81.84	81.59	81.3	81.55	82.09
3200	77.79	77.64	78.65	79.87	80.82	81.41	82.04	81.93	82.03	81.84	81.74	82.27
4000	77.06	76.54	77.7	79.27	80	80.94	81.83	80.86	81.4	81.81	81.95	82.36
5000	75.87	75.49	77.12	78.33	78.11	79.8	80.97	80.06	80.25	80.89	81.52	81.21
6300	75.01	74.49	75.82	77.33	76.95	78.43	80.3	79.42	79.63	80.31	80.48	80.6
8000	73.92	73.44	75.14	76.41	75.79	77.56	79.58	78.53	79.08	79.92	80.3	80.04
10000	71.69	71.2	71.94	73.37	73.95	75.52	76.74	75.23	75.86	76.91	77.69	78.34
OASPL	91.28	91.85	91.96	92.36	92.53	92.94	93.52	93.31	93.45	93.79	94.18	94.6

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.75	78.43	79.13	79.95	80.96	82.15	83.48	84.89	86.45	88.33	90.9	122.86
100	79.18	79.96	80.68	81.52	82.66	84.09	85.64	87.16	88.6	90.09	91.89	124.33
130	78.03	79.07	80.58	82.33	84.09	85.69	86.81	87.61	88.44	89.66	91.11	124.52
160	80.56	81.12	81.65	82.35	83.47	84.91	86.19	87.32	88.26	88.72	88.89	124.6
200	79.83	80.92	82.31	83.11	83.35	83.8	84.92	86.31	87.44	88	87.78	124.41
250	82.61	82.85	83.42	84.32	85.09	85.82	86.43	87	87.35	87.21	86.26	125.23
320	81.82	82.58	83.41	83.78	83.87	84.58	84.96	84.92	84.61	84.03	83.27	124.48
400	82.37	82.88	83.53	83.64	83.57	83.97	84.14	83.91	83.3	82.24	80.97	124.43
500	82.36	82.97	83.35	83.6	83.73	83.88	83.24	82.69	81.93	80.65	79.12	124.39
630	82.47	82.99	83.78	83.71	82.88	82.52	82.43	82.07	81.08	79.59	78.19	124.37
800	82.98	83.27	83.29	82.91	82.08	81.35	81.45	81.08	79.6	78.18	77.38	124.57
1000	83.28	84.05	84.09	82.9	81.41	80.71	80.21	79.35	78.22	77.24	76.71	125
1300	83.54	83.7	83.63	82.8	81.31	80.2	79.62	78.99	78.01	77.18	76.65	124.78
1600	83.5	83.66	83.5	82.48	80.88	79.75	79.1	78.41	77.46	76.44	75.75	124.42
2000	83.48	83.73	83.29	81.78	79.89	78.76	78.1	77.39	76.43	75.41	74.79	124.28
2500	83.16	83.28	82.78	81.45	79.56	78.14	77.45	76.58	75.3	74.45	74.41	124
3200	82.52	82.76	82.17	80.79	79.18	77.88	77.05	76.02	74.62	73.69	73.66	123.76
4000	82.44	82	81.38	80.19	78.58	77.34	76.38	75.16	73.72	72.97	73.3	123.3
5000	81.34	80.93	80.12	78.85	77.36	76.18	75.03	73.76	72.53	71.91	72.27	122.26
6300	80.65	79.99	78.77	77.39	76.08	74.87	73.68	72.48	71.43	70.98	71.37	121.34
8000	79.77	78.94	77.83	76.23	74.95	73.8	72.5	71.17	70.1	69.66	70.18	120.58
10000	78.17	75.6	74.7	73.77	72.52	70.91	69.36	67.91	66.56	65.92	66.36	117.62
OASPL	95.19	95.48	95.62	95.39	95.15	95.43	95.92	96.41	96.88	97.42	98.23	137.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	238
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	DP20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	917.16
m01	0.20697
pamb	14.4182
tamb	498.962
rhumid	62.12
winds1	0
nprc	1.544
nprb	1.609
ptc	22.2817
ptb	23.1989
wactc	2.73
wactb	16.112
ttc	1324.96
ttb	506.096
ptmix	23.0631
ttmix	624.741
mixpnd	0.74843
grsvixp	17281.1
badchan	(23,26)
bkgnd	226
escdate	22.Nov.96
esctime	16:35:38
DADSdate	97.08.18
DADStime	16:35:38
btchdate	22.Nov.96
btchtime	16:35:38

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:09:38 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.98	55.27	54.86	54.14	54.01	53.96	56.06	54.68	53.22	56.24	55.46	55.9	56.9	57.38	57.34	59.82	59.63	59.65	59.82	59.85	59.62	59.16	58.5	123.27
100	51.91	52.44	53.63	54.45	54.63	54.2	55.8	55.8	54.91	54.21	54.26	56.86	57.22	57.07	56.99	57.15	60.67	61.62	62.01	61.86	61.35	60.54	59.3	124.26
130	55.35	54.96	54.39	55.82	55.74	55.38	57.25	55.45	55.32	57.17	57.58	57.63	57.72	59.71	59.7	59.56	59.42	59.78	61.67	61.61	60.94	59.27	56.62	124.18
160	53.53	54.87	55.9	55.97	56.87	57.43	57.92	57.51	57.19	58.26	58.62	58.98	59.69	59.52	59.67	60.78	60.29	60.02	59.53	59.18	59.63	58.39	55.71	123.96
200	53.95	55.09	56.12	55.91	56.47	56.65	58.18	58.08	58.1	59	58.9	59.34	59.21	60.68	60.85	60.65	61.42	61.04	60.74	60.16	59.61	57.54	53.92	124.35
250	54.78	56.23	57.6	56.24	57.64	57.98	58.56	58.38	59.2	59.46	60.86	61.93	62.35	62.35	62.01	61.51	61.34	60.91	60.31	58.84	56.58	53.68	49.77	124.64
320	54.66	54.93	55.85	56.35	56.85	58.09	58.45	58.66	59.04	59.45	58.89	59.18	60.17	59.97	60.59	60.22	59.97	59.41	58.47	58.64	54.56	51.4	47.25	123.16
400	53.73	56.31	56.82	57.25	57.83	58.5	59.11	59.22	59.86	60.05	59.93	59.97	60.5	60.56	60.58	59.99	58.79	58.57	57.38	55.46	52.64	49.02	43.98	123.16
500	53.71	55.71	56.57	57.2	58.15	58.78	58.7	58.89	59.13	58.99	59.67	59.87	60.17	60.37	60.47	60.02	58.63	58.97	55.34	53.62	50.76	46.78	41.46	122.72
630	53.52	56.17	56.86	57.15	57.86	58.58	59.15	58.72	58.74	59.09	59.72	59.79	59.92	59.73	59.19	57.84	56.16	54.76	53.82	51.75	48.19	43.9	38.81	121.98
800	56.28	58.12	58.07	58.47	58.96	59.28	59.4	59.17	58.84	58.61	59.33	59.7	59.74	60.02	59.73	58.35	56.13	53.93	51.95	49.36	45.84	41.49	36.41	122.23
1000	55.14	57.63	57.36	58.11	58.24	57.98	58.19	59.39	59	58.96	59.12	58.86	59.49	58.53	58.83	56.9	54.54	52.28	50.3	47.76	44.25	39.92	34.31	121.58
1300	55.32	56.57	56.79	56.81	56.82	58.6	57.36	58.24	58.21	58.34	58.48	58.86	59.41	59.02	58.01	56.17	53.6	51.31	48.95	46.12	42.54	37.95	31.82	120.82
1600	53.81	54.32	54.89	55.64	56.34	56.59	57.73	57.65	57.68	57.81	57.87	58.34	58.67	58.24	57.39	55.2	52.18	49.54	47.06	44.12	40.18	35.05	28.23	120.04
2000	51.48	51.68	52.86	54.32	55.41	55.97	56.88	57.35	57.34	57.26	56.97	57.24	57.83	57.27	55.86	53.48	50.52	47.89	45.21	41.88	37.54	32.21	25.08	118.98
2500	48.1	48.91	50.57	52.36	53.64	54.45	55.22	56.55	56.36	55.89	55.9	55.91	56.23	56.74	54.3	51.77	48.61	45.53	42.81	39.24	34.29	28.2	19.66	117.48
3200	44.57	45.21	47.23	49.37	50.77	51.75	52.78	55.2	55.18	54.85	54.43	54.64	54.08	53.29	51.92	49.52	46.3	43.02	39.7	35.46	29.83	22.9	0	115.5
4000	39.22	40.18	42.57	44.82	45.28	47.18	48.64	51.95	52.44	52.6	52.41	52.25	51.56	50.15	48.19	45.47	42.05	38.62	34.75	29.78	22.98	0.21	0	112.37
5000	31.35	32.81	35.53	37.8	38.34	40.5	42.39	47.67	47.68	48.06	48.28	47.25	46.51	44.94	42.47	38.45	36.03	32.07	27.25	19.48	0	0	0	107.33
6300	18.14	20.02	24.95	26.24	28.66	31.08	33.65	41.64	41.82	42.24	41.88	41.26	40.24	38.16	35.24	31.54	27.2	21.24	1.44	0	0	0	0	100.83
8000	0	0	0	0	0	9.7	14.93	32.79	33.16	33.56	33.27	31.89	30.05	27.1	22.78	14.34	0	0	0	0	0	0	0	91.31
10000	0	0	0	0	0	0	0	9.96	12.33	12.29	12.01	0	0	0	0	0	0	0	0	0	0	0	0	69.88
OASPL	66.01	67.5	68.01	68.54	68.97	69.35	70.08	70.23	70.24	70.82	70.77	71.14	71.52	71.63	71.37	70.88	70.42	70	69.76	69.04	68.17	66.65	64.54	134.83
PNL	75.08	76.2	76.91	77.98	78.74	79.31	80.12	80.12	80.07	80.09	80.12	80.24	80.46	80.11	79.13	77.39	75.37	74.15	72.7	70.78	68.69	65.56	60.98	80.37

NASA Lewis Allison AST Jet Noise Test 1996

rdg 237
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld BASE
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 980.8
m01 0.20591
pamb 14.4174
tamb 497.523
rhumid 61.26
winds1 0
nprc 1.737
nprb 1.821
ptc 25.043
ptb 26.2541
wacltc 3.024
wactb 18.606
ttc 1410.5
ttb 506.463
ptmix 26.0848
ttmix 632.853
mixpnd 0.779
grsvixp 20782.1
badchan (21,22,23,26)
bkgnd 228
escdate 22 Nov.96
esctime 16:32:32
DADSdate 97.08.18
DADStime 16:32:32
blchdate 22.Nov.96
blchtime 16:32:32
**Scenario: 150 foot arc: 77F, 70%; Full scale; Third-octave SPL
Processing date Mon Aug 18 09:11:58 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	75.03	78.26	77.12	77.73	78.17	78.52	78.82	79.13	79.48	79.89	80.4
100	79.28	78.86	79.07	79.44	79.71	79.9	80.07	80.29	80.59	81.01	81.57
130	79.36	80.42	80.58	80.39	80.14	79.8	79.53	79.82	79.81	80.16	80.97
160	80.48	81.53	81.89	81.28	80.18	80.48	81.94	82.14	82.39	82.95	83.49
200	80.21	81.78	81.82	81.59	81.33	81.46	81.97	82.63	83.2	83.44	83.58
250	80.77	81.27	81.2	81.22	81.58	81.5	81.42	82.1	82.77	83.95	85.17
320	81.31	81.87	81.95	82.1	82.41	82.36	82.42	82.87	83.18	83.28	84.08
400	81.44	81.62	81.89	82.29	82.29	82.22	82.79	83.85	84.09	84.13	84.93
500	82.39	82.79	83.07	83.22	83.06	83.34	83.27	83.49	84.07	84.44	85.28
630	82.04	83.05	83.39	83.63	83.98	83.98	83.99	84.43	84.75	85.19	85.37
800	83.72	85.07	84.44	84.05	84.38	84.8	84.78	84.83	84.84	85.28	86.34
1000	84.91	85.76	84.8	85.09	85.3	85.23	85.25	85.61	85.78	86.12	86.7
1300	85.71	85.78	85.14	85.52	86.05	85.65	85.38	85.84	86.01	85.88	86.82
1600	86.38	86.6	86.3	86.11	86.04	85.81	85.83	86.05	86.18	86.35	87.07
2000	86.39	86.58	86.32	86.83	86.83	86.31	86.28	86.52	86.21	86.21	86.84
2500	86.51	86.75	86.83	87.13	86.87	86.65	86.96	86.96	86.5	86.58	87.2
3200	87.04	87.01	87.13	87.56	87.12	86.86	87.37	87.29	87.1	87.48	88
4000	86.55	87.16	87.44	87.95	86.97	86.78	87.71	87.49	87.1	87.33	87.98
5000	85.42	86.93	87.11	87.64	86.07	85.98	87.16	87.25	86.96	86.96	87.73
6300	84.45	86.29	86.11	86.81	85.54	85.37	86.6	86.89	86.95	86.79	86.86
8000	83.18	84.66	85.04	85.86	84.72	84.8	86.13	86.4	86.49	86.36	86.75
10000	80.48	82.29	81.54	82.76	82.78	82.9	83.34	83.54	83.46	83.22	83.72
OASPL	97.23	97.93	97.85	98.19	97.85	97.73	98.18	98.39	98.41	98.59	99.2

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.02	81.78	82.67	83.71	84.93	86.34	87.97	89.81	91.72	93.59	95.51	97.78	128.82
100	82.28	83.15	84.19	85.34	85.82	86.92	89.89	91.3	92.28	93.51	95.02	98.93	129.16
130	81.99	82.67	84.12	85.48	86.53	87.82	89.84	92.05	94.34	96.09	97.5	96.91	130.53
160	83.97	84.78	85.79	86.83	87.69	88.44	89.52	91.04	92.38	93.17	93.73	94.47	129.46
200	84.2	84.91	85.85	86.98	88.13	89.38	90.83	92.47	93.54	93.63	93.17	92.6	129.97
250	85.9	86.52	86.75	87.43	88.95	90.8	92.19	92.79	92.81	91.81	90.74	89.75	130.04
320	84.95	85.77	86.54	88.23	88.62	88.44	90.02	91.28	91.29	90.21	88.57	86.92	129.11
400	85.78	86.69	87.95	88.64	89.01	89.47	90.03	90.34	89.95	88.77	87.23	85.83	129.22
500	85.47	86.24	87.01	87.98	88.57	88.7	88.93	89.11	88.88	87.68	86.54	85.29	128.83
630	85.99	87.1	87.5	87.77	87.84	87.88	88	88	87.45	86.24	84.79	83.57	128.72
800	86.23	87.32	88.13	88.74	88.3	87.25	87.04	86.88	86.22	85.04	83.77	82.92	128.97
1000	87.1	88.12	88.47	88.44	87.72	86.85	86.53	86.15	85.53	84.53	83.4	82.5	129.28
1300	87.04	88.21	88.84	88.57	87.22	85.94	85.61	85.07	84.02	82.78	81.63	80.93	129.22
1600	87.42	88.9	89.36	88.88	87.59	86.03	85.43	84.86	83.97	82.88	81.9	81.4	129.62
2000	87.5	89.08	89.96	89.09	87.3	85.76	84.86	84.23	83.47	82.52	81.65	81.22	129.77
2500	88.09	89.28	89.66	88.96	87.43	85.68	84.21	83.51	83.12	82.52	81.93	81.72	129.94
3200	88.37	89.87	89.98	88.95	87.41	85.55	83.88	83.07	82.68	82.19	81.78	81.75	130.28
4000	88.37	89.27	88.88	87.81	86.53	84.96	83.34	82.5	82.1	81.72	81.51	81.76	130.04
5000	87.9	88.46	87.87	87.07	85.78	83.82	82.14	81.26	80.91	80.65	80.59	81.02	129.48
6300	86.76	87.3	86.93	85.89	84.36	82.5	80.97	80.17	79.82	79.55	79.5	79.99	128.69
8000	86.47	86.54	85.61	84.49	83.1	81.45	80.19	79.54	79.16	78.81	78.62	78.9	127.93
10000	82.76	82.74	82.35	81.5	80.49	79	77.18	76.42	76.37	76.31	76.26	76.54	125
OASPL	99.59	100.55	100.93	100.91	100.59	100.45	101.07	101.9	102.49	102.86	103.35	104.36	142.71

NASA Lewis Allison AST Jet Noise Test 1996

rdg	237
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	960.8
m01	0.20591
pamb	14.4174
tamb	497.523
rhumid	61.26
winds1	0
nprc	1.737
nprb	1.821
ptc	25.043
ptb	26.2541
wactc	3.024
wactb	18.606
ttc	1410.5
ttb	506.463
ptmix	26.0848
ttmix	632.853
mixpnd	0.779
grsvixp	20782.1
badchan	{21,22,23,26}
bkgnd	228
escdate	22.Nov.96
esctime	16:32:32
DADSdate	97.08.18
DADStime	16:32:32
btchdate	22.Nov.96
btchtime	16:32:32

"Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 09:12:06 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1586.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	53.43	57.72	57.83	57.76	57.77	57.82	60.41	59.09	57.55	60.81	60.56	60.46	60.47	60.57	60.77	63.5	63.58	64.54	64.65	64.02	63.36	62.63	61.83	127.24
100	56.76	58.25	59.23	59.33	59.34	58.55	59.7	60.22	59.58	59.04	58.91	61	61.9	62.24	61.87	61.15	64.44	65.77	67.13	68.18	68.67	68.46	67.48	130.38
130	59.04	59.69	59.9	60.66	59.09	59.15	61.69	59.5	59.5	61.34	61.4	61.87	61.64	64.1	65.06	65.35	64.94	65.06	66.63	66.81	66.34	65.14	63.51	129.35
160	57.25	59.54	60.88	60.34	61.11	60.88	61.88	61.96	61.67	63.2	63.52	63.6	64.89	64.75	64.66	65.61	65.79	66.09	66.1	65.46	65.38	63.03	59.93	129.21
200	58.4	59.46	60.21	59.94	60.85	60.5	61.2	62.36	62.34	62.66	62.55	63.82	63.36	64.67	64.88	65.47	67.42	67.71	67.67	66.87	65.04	62.11	58.38	129.59
250	58.83	59.83	60.75	61.49	61.68	61.89	62.17	61.68	62.86	63.56	65	65.25	65.7	65.85	66.52	66	66.15	66.65	66.62	64.87	61.63	57.71	53.16	129.18
320	58.48	59.23	59.6	60.14	60.78	61.12	61.45	62.25	62.43	62.62	62.66	63.69	64.14	64.75	65.6	65.44	65.19	64.64	64.62	63.07	60.68	56.9	52.27	127.92
400	59.2	59.52	60.39	61.48	61.42	61.73	62.13	62.93	63.23	63.19	63.82	64.2	64.63	65.33	65.58	65.58	64.64	64.13	63.22	61.67	58.62	54.95	50.28	127.81
500	57.94	59.44	60.41	60.96	61.62	61.66	61.99	62.23	62.7	63.16	63.74	63.73	64.34	64.48	64.58	64.01	63.42	62.67	61.31	58.97	55.51	51.23	46.06	126.86
630	58.03	60.37	60.51	60.95	61.69	62.39	62.63	62.77	63.14	63.52	63.68	63.68	64.52	64.44	64.3	63.41	61.73	60.2	59.03	56.95	53.75	49.66	44.56	126.48
800	59.74	61.48	61.41	61.69	62.31	62.55	62.66	62.73	62.73	62.85	63.85	63.98	64.36	64.76	64.31	62.87	61.07	59.74	57.76	54.99	51.52	47.07	41.57	126.42
1000	59.68	60.66	60.44	61.26	62.06	62.16	62.16	63.06	63.12	63.22	63.47	63.48	64.25	64.14	63.41	61.64	59.5	57.74	55.9	53.27	49.68	45.16	39.34	125.85
1300	59.66	60.73	60.93	61.61	62.12	61.99	62.13	62.8	62.92	62.72	63.24	63.27	64.25	64.32	63.22	60.97	58.37	56.64	54.52	51.55	47.76	43.03	36.9	125.64
1600	59.32	60.45	60.73	61.39	61.78	61.58	61.89	62.44	62.54	62.64	63.06	63.09	64.26	64.35	62.83	60.42	57.95	55.66	53.05	49.88	45.86	40.84	34.28	125.35
2000	58.17	58	59.56	60.69	61.09	61.11	61.59	62.2	61.96	61.82	62.19	62.62	63.4	63.5	61.96	59.35	56.41	53.65	51.19	48.43	44.63	39.6	32.6	124.54
2500	56.56	57.73	58.55	59.58	59.73	59.86	60.51	61.66	61.28	61.21	61.61	62.06	63.03	62.64	60.77	58.1	55.06	51.78	48.86	45.62	41.46	35.89	27.89	123.63
3200	54.02	55.12	56.38	57.72	57.48	57.45	58.64	60.56	60.32	60.55	60.72	60.55	61.11	60.36	58.61	55.91	52.48	49	45.67	42.49	37.9	31.69	22.28	121.89
4000	48.86	51.28	52.47	53.81	53.12	53.34	54.81	58.54	58.07	58.11	58.44	58.38	58.42	56.92	54.74	52.11	48.66	44.82	40.99	36.72	31.39	23.71	-1.85	118.69
5000	40.87	44.47	45.87	47.31	46.71	47.13	48.7	54.86	54.48	54.24	54.45	53.88	53.6	51.9	49.59	46.42	42.3	37.86	33.43	28.49	20.67	0	0	114.18
6300	29.75	33.28	35.43	37.85	37.42	38.14	40.06	49.12	49.04	48.67	48.24	47.4	46.85	45	42.18	38.43	33.91	29.06	22.95	11.09	0	0	0	107.86
8000	0	11.19	17.85	21.23	22.18	23.6	25.43	40.53	40.61	40.12	39.76	38.39	36.85	34.09	30.56	25.91	19.05	0	0	0	0	0	0	98.37
10000	0	0	0	0	0	0	0	25.63	25.05	23.93	22.99	19.46	15.82	4.58	0	0	0	0	0	0	0	0	0	81.62
OASPL	70.56	71.8	72.38	72.93	73.27	73.35	73.96	74.42	74.46	74.85	75.26	75.57	76.18	76.43	76.25	75.77	75.57	75.58	75.6	74.92	73.95	72.43	70.65	139.79
PNL	81.03	82.21	82.87	83.77	84.06	84.13	84.76	85.1	84.95	85.16	85.45	85.67	86.35	86.13	84.97	83.16	81.21	80.1	79.2	77.45	74.95	71.77	68.47	86.04

NASA Lewis Allison AST Jet Noise Test 1996

rdg	241
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
ngbid	JER w/ external supplement
mixbid	OP20
nozbid	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	557.13
m01	0.30174
pamb	14.3645
tamb	496.005
rhumid	63.31
winds1	0
nprc	1.173
nprb	1.215
ptc	16.8496
ptb	17.4529
wactc	1.525
wactb	9.409
ttc	1118.02
ttb	504.522
ptmix	17.3687
ttmix	590.088
mixpnd	0.467793
grsvixp	6091.66
badchan	[24,25,26]
bkgnd	229
eacdate	22.Nov.96
eactime	17:06:21
DADSdate	22.Nov.96
DADStime	17:06:21
bichdate	22.Nov.96
bichtime	17:06:21

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:04:50 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	63.13	61.55	61.19	62.28	62.74	62.97	63.12	63.21	63.26	63.29	63.3	63.31	63.33	63.36	63.41	63.51	63.66	63.9	64.3	0	0	0	105.67
160	0	0	0	60.1	60.84	60.47	59.82	59.42	59.24	59.24	59.36	59.57	59.84	60.16	60.51	60.88	61.27	61.68	62.16	62.66	62.79	62.63	0	102.83
200	58.73	64.05	63.54	63.09	63.31	64.64	66.3	66.55	66.99	67.74	68.36	68.35	68.47	68.74	68.73	68.29	67.76	67.25	66.84	65.48	65.58	65.94	0	109.67
250	63.8	66.44	67.76	68.16	68.26	68.67	69.35	69.97	70.19	70.2	70.37	70.75	71.06	71.31	71.68	72.03	72.05	72.13	72.18	71.86	71.32	70.83	69.29	113.22
320	65	68.13	68.64	68.63	68.62	69.24	69.81	70.45	70.95	71.1	71.19	71.41	71.77	72.17	72.05	71.52	71.38	71.99	72.49	71.72	70.23	68.94	68.72	113.58
400	61.56	66.58	67.79	66.75	67.92	69.55	69.95	70.29	70.65	70.67	70.76	70.99	71.4	71.21	70.83	70.55	70.05	69.55	69.35	68.78	66.26	65.45	61.61	112.6
500	63.16	67.36	67.3	67.25	68.02	68.62	69.66	70.34	70.35	70.63	71.51	71.48	71.77	71.85	72	72.17	71.94	71.73	71.39	70.57	69.16	67.53	66.26	113.26
630	64.63	67.98	68.23	67.98	68.59	69.51	70.51	71.3	71.4	70.92	71.82	71.91	72.02	71.69	71.66	71.52	71.48	71.32	70.83	70	68.76	67.36	66.72	113.5
800	63.49	66.31	66.69	67.23	67.84	69.07	70.44	70.7	70.77	70.69	71.16	70.95	71.06	70.84	70.29	69.94	69.65	69.21	68.67	68	66.87	65.41	64.53	112.49
1000	63.31	66.29	66.5	66.41	67.15	68.37	69.76	70.29	70.2	70.53	71.16	70.23	70.01	69.6	68.97	68.48	68.04	67.55	67.02	66.4	65.54	64.84	64.35	111.72
1300	61.86	64.12	64.67	64.81	65.5	66.43	68.26	69.13	68.06	67.62	68.3	67.77	68.04	67.7	66.91	66.25	65.96	65.66	65.06	64.14	63.06	62.25	62.49	109.67
1600	60.86	63.3	64.16	64.25	65.09	66.06	67.73	68.12	67.44	67.72	68.39	67.92	68.18	67.64	67.09	66.5	66.02	65.39	64.7	63.71	62.64	61.58	61.46	109.43
2000	58.93	62.62	63.69	64.09	65.06	66.55	68.25	68.36	67.46	67.82	68.05	67.03	67.24	67.03	66.32	65.43	64.57	63.65	62.83	62.16	61.53	60.95	60.92	109.04
2500	59.83	62.23	63.55	63.84	65.13	66.14	67.65	68.35	67.4	67.25	67.63	66.99	66.89	66.4	65.58	64.86	64.17	63.09	62.02	61.49	61.04	60.26	60.08	108.68
3200	60.1	61.94	63.86	64.39	65.93	66.76	68.36	69.06	68.46	68.54	68.84	68.17	67.72	66.99	66.06	65.25	64.64	63.87	62.96	62.1	61.1	60.11	59.8	109.47
4000	58.76	61.18	63.25	63.96	64.94	66.29	68.32	66.76	67.7	67.97	68.46	67.77	67.82	66.71	65.75	65.22	64.54	63.85	63.12	62.22	61.09	59.95	59.62	109.11
5000	57.8	61.11	63.17	63.95	64.65	65.76	68.04	66.62	67.05	67.2	68.07	67.48	67.06	66.23	65.34	64.6	63.82	63.22	62.79	62.26	61.4	60.32	59.67	108.73
6300	58.06	61.33	63.55	64.31	65.01	65.97	66.32	66.92	67.23	67.38	67.8	67.45	67.05	66.47	65.56	64.63	63.89	63.12	62.42	61.91	61.21	60.27	60.14	108.84
8000	58.59	62.16	64	65.14	66.04	66.63	66.96	69.26	67.66	67.87	68.7	67.86	67.17	66.34	65.71	65.23	64.41	63.47	62.73	62.3	61.75	60.99	60.84	109.33
10000	58.68	61.63	62.88	64.32	66.06	66.04	67.5	67.77	65.77	65.85	67.59	65.4	64.65	64.32	64.03	63.89	63.44	62.14	60.93	60.67	60.51	59.63	58.86	107.9
OASPL	74.16	77.58	78.32	78.55	79.27	80.18	81.51	82.03	81.62	81.7	82.24	81.94	82	81.84	81.51	81.23	80.92	80.66	80.43	79.79	78.6	77.67	76.06	123.68

NASA Lewis Allison AST Jet Noise Test 1996

rdg	241
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nearbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	557.13
m01	0.30174
pamb	14.3645
tamb	496.005
rhumid	83.31
winds1	0
nprc	1.173
nprb	1.215
ptc	16.8496
ptb	17.4529
wactc	1.525
wactb	9.409
ttc	1118.02
ttb	504.522
ptmix	17.3687
ttmix	590.088
mixpnd	0.467793
gravisp	6091.86
badchan	(24,25,26)
bkgnd	229
ascdate	22.Nov.96
asctime	17:06:21
DADSdate	22.Nov.96
DADStime	17:06:21
btchdate	22.Nov.96
btchtime	17:06:21

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 01:04:56 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	41.84	42.48	42.82	0	0	0	0	0	0	41.98	41.53	41	40.39	39.71	0	0	0	0	0	101.77
100	0	37.56	33.57	30.87	0	40.13	39.59	43.01	43.07	40.44	37.79	35.16	32.59	0	38.61	38.39	38.08	37.65	38.95	38.13	0	0	0	102.4
130	0	39.03	30.33	34.89	39.95	43.2	44.17	39.24	39.04	47.33	47.07	46.11	44.68	45.81	44.63	45.27	43.72	41.97	37.12	36.4	35.03	32.96	0	107.31
160	36.49	42.11	43.35	44.28	45.39	47.02	49.32	46.27	48.27	48.06	47.83	48.54	47.61	48.05	47.55	48.36	47.52	48.17	41.75	39.03	37.53	35.86	0	110.9
200	43.3	46.2	48.37	49.1	49.21	49.47	49.29	49.53	50.43	51.05	51.61	51.89	51.69	51.62	51.08	49.58	48.59	47.52	47.04	45.21	43.67	41.04	38.85	113.85
250	40.72	44.75	45.59	45.21	48.08	47.89	48.97	49.84	50.07	49.3	48.75	48.58	48.65	48.48	48.32	47.6	46.18	44.74	47.04	44.8	41.26	37.61	32.14	111.82
320	38.32	44.32	46.41	46.57	48.59	47.39	47.95	49.39	50.08	50.05	49.98	49.87	49.85	49.27	48.7	48.08	47.05	46.27	43.55	41.43	37.62	34.51	29.25	111.88
400	38.69	44.82	45.74	45.86	48.91	47.84	49.03	49.07	49.39	49.93	50.86	50.58	50.51	49.86	49.29	48.54	47.34	45.71	44.7	42.64	39.45	35.3	30.52	112.28
500	40.15	43.54	43.7	44.56	45.35	46.98	48.3	49.66	49.59	49.18	49.58	49.29	48.45	47.78	46.34	45.37	44.25	42.95	43.89	41.37	38.09	34.02	29.56	110.88
630	38.1	41.82	42.94	43.24	44.28	45.71	47.21	48.62	48.3	47.6	47.61	47.18	47.19	46.37	45.07	43.71	42.4	40.56	40.98	38.54	35.18	30.93	25.79	109.31
800	37.78	40.92	41.59	41.69	42.71	43.6	45.25	47.73	47.52	47.43	47.79	46.12	45.17	44.13	42.56	40.99	39.56	37.95	38.55	36.02	32.78	28.68	23.85	107.93
1000	35.18	38.25	39.39	40.15	41.4	42.44	43.94	46.08	44.82	44.31	44.64	43.99	43.8	42.83	41.44	39.96	38.44	36.61	35.68	32.81	29.25	24.9	20	105.92
1300	33.59	36.87	38.44	38.99	40.01	41.85	44.01	44.49	43.75	43.98	44.58	43.4	43.05	42.11	40.66	38.9	37	34.51	34.42	31.33	27.5	22.75	16.17	105.1
1600	30.39	35.16	36.66	37.59	39.09	40.83	42.34	44.06	42.96	43.07	42.94	41.71	41.02	40.08	38.67	36.86	34.89	32.41	31.88	28.88	25.1	20.29	5.19	103.85
2000	29.64	32.86	35.31	36.35	38.45	39.65	41.48	43.05	42.21	41.95	42.24	41.3	40.81	39.56	37.89	36.1	33.96	31.51	29.48	26.57	22.87	15.52	0	102.61
2500	26.9	29.84	32.73	33.86	35.72	37.22	39.23	42.31	41.7	41.63	41.62	40.64	39.66	37.98	35.84	34.02	32.03	29.46	28.64	25.08	20.11	0	0	101.57
3200	20.16	25.03	28.25	30.03	31.38	33	35.54	39.8	38.59	38.61	38.82	37.63	36.75	34.91	32.77	30.68	28.2	25.43	26.29	22.15	3.6	0	0	98.44
4000	0	13.5	21	23.4	25.39	27.16	30.17	36.4	34.65	34.5	34.82	33.51	32.24	30.72	28.57	25.91	22.18	14.01	21.27	10.08	0	0	0	94.11
5000	0	0	0	0	5.66	14.59	21.01	31.07	29.38	29.45	29.56	28.56	27.16	24.58	20.87	13.32	0	0	0	0	0	0	0	88.25
6300	0	0	0	0	0	0	0	22.02	19.38	19.25	19.42	15.29	-1.31	0	0	0	0	0	0	0	0	0	0	77.31
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	49.37	53.57	54.56	55	56.05	57.29	58.41	59.01	59.16	59.29	59.49	59.18	58.8	58.51	57.79	57.05	55.9	54.93	53.72	51.59	48.88	45.52	40.05	121.26
PNL	55.4	59.86	61.2	61.99	63.58	65.1	66.77	67.48	67	67.05	67.16	66.33	65.63	64.83	63.86	62.69	61.13	59.53	57.42	54.8	50.31	44.9	37.48	64.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg	242
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	802.53
m01	0.30086
pamb	14.3655
tamb	495.959
rhumid	66.21
winds1	0
nprc	1.39
nprb	1.444
ptc	19.968
ptb	20.7438
wactc	2.439
wactb	13.699
ttc	1174.76
ttb	503.109
ptmix	20.6265
ttmix	604.618
mixpnd	0.665697
grsvixp	12951.2
badchan	{23}
bkgnd	229
escdate	22.Nov.96
esctime	17:13:43
DADSdate	97.08.18
DADStime	17:13:43
btchdate	22.Nov.96
btchtime	17:13:43

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:23:08 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	70.46	69.11	68.97	70.33	70.65	69.72	70.49	70.4	70.95	72.3	71.35	71.09
100	71.89	70.4	70.28	70.68	70.89	70.61	70.64	71.65	71.75	70.63	70.61	71.38
130	69.25	71.32	69.25	69.53	70.44	70.5	70.31	70.7	71.14	71.26	72.01	73.02
160	69.47	70.38	69.28	69.48	70.47	71.24	70.83	71.06	71.2	71.19	72.77	72.96
200	67.49	69.61	70.15	70.48	70.85	71.39	72.1	72.94	72.98	72.71	73.58	73.99
250	70.9	71.79	72.93	72.97	72.86	73.18	73.75	74.35	74.75	74.9	75.37	76.11
320	71.63	73.68	74.76	74.18	73.78	74.47	75.21	75.35	75.66	76.29	76.25	76.38
400	70.63	73.06	73.18	72.71	73.33	74.31	74.55	75.5	75.48	75.07	75.68	76.07
500	71.49	74.36	74.8	73.84	74.81	75.45	75.97	76	75.69	75.81	76.24	76
630	70.5	73.53	73.96	73.93	74.42	75.12	75.68	75.95	76.25	75.96	75.45	75.95
800	72.06	75.32	75.64	76.04	75.75	76.08	76.9	77.51	77.09	76.24	76.41	77.09
1000	72.03	74.95	75.35	75.47	75.45	75.92	76.41	76.48	76.09	75.89	75.89	76.4
1300	73.25	75.07	75.43	75.74	76.14	76.43	76.58	76.68	76.05	75.06	75.09	75.46
1600	73.2	75.12	75.62	76.15	76.27	76.02	76.16	76.18	75.8	75.44	75.72	76.37
2000	76.83	74.89	75.76	76.21	76.57	76.76	77.03	76.95	76.32	75.51	75.15	75.82
2500	73.61	74.44	75.93	76.69	77.23	77	76.98	77.06	76.69	75.81	75.33	75.46
3200	83.24	74.07	75.72	76.85	77.51	77.07	77.31	77.43	77.37	76.69	75.87	75.68
4000	99.46	73.81	75.4	76.68	77.16	77.24	77.58	76.99	76.96	76.53	75.86	75.62
5000	94.49	72.9	74.85	75.42	75.62	76.5	77.21	76.82	76.28	75.82	75.29	74.85
6300	144.17	72.4	73.93	75.2	75.11	75.74	76.75	76.42	75.76	75.19	74.45	74.14
8000	98.97	71.96	73.87	74.76	74.86	75.48	76.68	76.24	75.44	74.79	74.48	73.92
10000	97.21	70.55	71.78	73.01	73.86	74.16	74.34	74.06	72.92	71.78	71.54	70.36
OASPL	144.17	86.66	87.44	87.93	88.24	88.52	88.97	89.03	88.77	88.36	88.26	88.5

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.57	72.21	72.59	72.66	72.68	72.86	73.34	74.26	75.54	77.25	79.61	114.91
100	72.35	73.02	73.04	73.03	73.61	74.42	75.01	75.16	75.6	76.91	79.38	115.42
130	72.47	71.74	72.41	73.86	74.49	74.58	74.7	75.21	76.11	77.38	79.03	115.46
160	73.12	73.12	72.79	72.53	72.85	73.82	75.04	75.94	76.62	77.45	78.82	115.54
200	73.67	74.05	74.46	74.6	74.69	74.95	75.11	74.82	74.82	75.56	76.8	116.15
250	75.69	76.69	77.44	77.33	77.19	77.35	77.61	77.61	77.33	76.76	76.08	118.37
320	76.71	77.18	77.61	77.42	76.41	76.3	76.71	76.34	75.45	74.6	74.02	118.71
400	75.69	75.76	76.12	76.06	75.45	74.7	74.12	73.88	73.54	72.87	72.44	117.71
500	75.81	76.35	76.85	76.67	75.96	75.38	74.89	74.07	73	72.01	71.72	118.37
630	76.29	76.6	76.45	75.74	74.8	74.18	73.62	72.71	71.6	70.67	70.37	118.04
800	77.23	77.34	77.09	76.45	75.81	74.8	73.47	72.2	71.16	70.52	70.65	119.04
1000	76.35	76.5	76.36	75.53	74.47	73.85	73.22	71.83	70.49	69.81	69.84	118.38
1300	75.74	76.12	76.03	75.3	74.58	73.93	73.06	71.63	70.35	69.7	69.73	118.29
1600	76.06	75.88	75.74	75.27	74.54	73.87	73.06	71.36	69.72	68.89	69.08	118.31
2000	75.71	75.38	75.05	74.58	73.65	72.73	71.73	70.45	69.29	68.66	68.63	118.45
2500	75.21	74.81	74.43	73.98	73.17	72.21	71.1	69.81	68.65	67.96	68.12	118.29
3200	75.57	75.22	74.64	73.86	72.91	71.95	70.81	69.36	68.06	67.39	67.61	119.03
4000	75.36	74.66	74.01	73.43	72.53	71.62	70.6	69.12	67.72	66.89	67.1	126.71
5000	74.77	74.12	73.43	72.81	71.83	71	70.05	68.47	66.99	66.21	66.64	122.67
6300	74.54	73.88	72.7	71.73	70.84	70.1	69.17	67.81	66.54	65.86	66.3	170.76
8000	73.9	73.13	71.89	70.75	69.76	69.3	68.73	67.25	65.73	64.96	65.64	126.06
10000	70.67	70.12	68.92	68.04	67.42	66.9	66.05	64.48	62.82	61.76	62.33	124.27
OASPL	88.49	88.51	88.45	88.06	87.53	87.19	86.96	86.53	86.27	86.5	87.55	170.76

NASA Lewis Allison AST Jet Noise Test 1996

rdg	242
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
ambxc	35.02
ambxb	78.39
scale	4
vid	802.53
m01	0.30086
pamb	14.3655
tamb	495.958
rhumid	66.21
windel	0
nprc	1.39
nprb	1.444
ptc	19.958
ptb	20.7438
wactc	2.439
wactb	13.699
ttc	1174.76
ttb	503.109
ptmix	20.6265
ttmix	604.616
mixpnd	0.665697
gravirp	12961.2
badchan	(23)
bkgnd	229
eacdate	22.Nov.96
eactime	17:13:43
DADSdate	97.08.18
DADStime	17:13:43
btchdate	22.Nov.96
btchtime	17:13:43

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:23:16 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1
Caution! Possible source of error in 55 deg mike at 4000 Hz (1/3rd octave-band, full-scale)

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	49.1	47.44	48.91	50.55	49.74	48.49	47.86	50.38	52.1	51.6	50.49	50.08
80	48.73	49.45	49.5	47.69	50.06	50.3	50.9	51.58	50.41	48.26	51.08	50.81
100	47.61	49.8	47.32	48.31	48.38	50.89	49.82	50.59	50.71	51.02	51.27	53.1
130	45.7	49.01	48.29	48.79	50.05	51.14	51.18	50.88	50.33	51.64	52.87	52.29
160	45.52	48.14	48.55	49.39	50.35	51.81	53.63	52.66	53	51.78	52.28	53.86
200	49.33	51.13	53.59	54.18	54.01	54.29	54.66	53.92	54.93	55.77	56.52	56.25
250	48.57	50.95	51.48	50.19	51.29	53.09	53.7	54.73	54.58	54.81	54.11	53.93
320	46.84	50.64	51.47	51.44	51.78	53.2	54.19	54.58	54.76	54.04	54.65	54.68
400	47.66	51.3	52.32	52.11	53.39	53.8	54.15	54.72	54.86	54.78	54.64	54.4
500	46.39	50.32	51.16	52.37	52.44	53.5	54.71	54.31	54.65	54.44	54.23	54.49
630	47.07	50.98	51.67	52.41	52.92	53.44	53.82	55.42	54.64	53.61	53.47	53.94
800	46.83	50.2	51.16	51.51	52.15	53.04	53.54	53.92	53.57	52.66	52.62	52.62
1000	46.85	49.49	50.63	51.52	52.21	52.29	52.59	53.63	52.95	51.85	51.59	52.13
1300	46.02	48.97	50.11	51.11	51.82	52.04	52.59	52.58	52.1	51.76	51.74	51.85
1600	51.19	47.18	48.81	50.15	51.12	51.4	51.82	52.64	52.03	51.13	50.57	50.86
2000	46.11	45.08	47.8	48.97	50.05	49.96	50.43	51.8	51.49	50.55	49.74	49.39
2500	50.32	41.96	44.5	46.46	47.52	47.88	48.47	50.7	50.56	49.75	48.53	48.08
3200	62.28	37.65	40.31	42.32	43.25	43.96	44.81	48.02	47.96	47.27	46.37	45.37
4000	96.16	30.36	33.39	35.13	36.08	37.52	38.82	44.46	43.7	42.97	41.95	40.9
5000	31.52	17.63	22.74	26.1	27.26	28.67	30.48	38.6	37.94	37.13	36.03	35.02
6300	31.74	0	0	0	0	-2.56	5.27	30.29	29.39	28.31	27.11	25.08
8000	0	0	0	0	0	0	0	5.75	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	86.17	61.77	62.58	63.17	63.78	64.48	65.03	65.6	66.52	65.18	65.23	65.34
PNL	106.03	70.82	72.23	73.29	74.13	74.86	75.12	75.46	75.22	74.67	74.07	73.89

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	52.39	51.5	49.82	48.27	48.09	50.97	48.62	47.86	46.7	45.74	48.56	114.64
80	49.66	51.23	51.41	52	50.95	51.07	50.51	48.91	47.46	46.62	46.22	115.14
100	52.13	50.98	51.18	49.99	49.02	50.11	49.89	49.01	48.32	47.63	46.71	115.12
130	51.05	52.13	52	52.38	51.18	49.97	50.12	49.66	48.49	47.08	45.61	115.56
160	52.83	53.05	52.74	53.83	52.8	53.38	50.1	48.37	46.6	45.24	44.62	116.38
200	56.37	56.77	56.66	55.21	53.56	51.94	52.4	50.97	49.42	46.82	43.19	118.86
250	53.21	53.14	53.45	53.22	51.74	50	51.32	49.43	46.97	43.76	40.26	116.95
320	54.37	54.11	53.84	52.93	51.43	50.15	48.29	46.54	44.81	41.63	38.32	116.9
400	54.38	54.07	53.43	52.09	50.21	48.37	48.34	46.16	43.14	39.7	36.05	116.69
500	54.08	53.92	53.32	51.99	50.43	48.4	46.58	44.07	41.01	37.37	33.35	116.57
630	53.48	53.11	52.27	50.78	48.82	46.72	45.72	42.72	39.46	36.02	31.85	116.17
800	52.11	51.49	50.69	49.25	47.48	45.71	44.63	41.42	37.71	33.84	29.38	115.12
1000	51.75	51.44	50.56	49.1	47.4	45.43	43.45	40.25	36.49	32.42	27.3	114.65
1300	51.24	50.2	49.05	47.66	45.88	43.26	42.92	39	34.65	30.07	24.74	114.01
1600	49.82	48.79	47.7	46.27	44.16	41.58	40.43	38.93	32.88	28.2	22.15	113.22
2000	48.61	47.69	46.39	44.8	42.28	39.72	38.52	34.85	30.43	25.26	17.37	112
2500	47.31	45.82	44.28	42.38	39.96	37.15	36.5	32.38	27.53	21.71	0	110.54
3200	44.52	42.88	41.08	39.08	38.25	33.24	33.7	29.22	23.66	4.68	0	112.23
4000	40.07	38.36	36.09	33.48	30.47	26.96	29.49	23.89	9.8	0	0	144.49
5000	34.19	32.16	29.19	25.47	20.28	9.86	21.27	0.19	0	0	0	96.14
6300	23.18	19.08	7.25	0	0	0	0	0	0	0	0	87.25
8000	0	0	0	0	0	0	0	0	0	0	0	65.72
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	64.94	64.77	64.32	63.5	62.06	61.27	60.46	58.85	57.09	55.28	54.37	144.58
PNL	73.24	72.5	71.45	70	67.94	66.02	64	61.15	57.86	53.92	49.09	89.7

NASA Lewis Allison AST Jet Noise Test 1996

rdg	243
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vld	906.4
m01	0 30131
pamb	14.364
tamb	495.821
rhumid	65.54
winds1	0
nprc	1.536
nprb	1.612
ptc	22.0631
ptb	23.1546
wactc	2.651
wactb	16.182
ttc	1316.95
ttb	502.84
ptmix	23.0011
ttmix	617.719
mixpnd	0.743841
grsvixp	17070.2
badchan	{07,08,25,26}
bkgnd	229
escdate	22.Nov.96
esctime	17:23:47
DADSdate	97.08.18
DADStime	17:23:47
btchdate	22.Nov.96
btchtime	17:23:47

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 09:26:04 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.05	72.94	73.28	72.9	72.78	72.95	73.28	73.72	74.18	74.84	75.04	75.39	75.72	76.1	76.55	77.12	77.84	78.73	79.76	80.9	82.21	83.92	86.44	119.62
100	69.65	72.46	73.91	74.22	73.6	72.75	72.8	74.17	74.71	73.7	73.82	75.04	76.31	76.86	77.27	77.99	78.81	79.51	80.29	81.45	82.95	84.89	87.54	120.17
130	70.61	72.86	72.6	72.86	72.46	72.38	72.5	72.77	73.14	73.56	73.97	74.46	75.42	77.01	78.24	78.62	78.81	79.3	80.16	81.29	82.69	84.53	87.21	119.93
160	70.48	73.54	73.01	73.33	74.09	74.86	75.26	75.04	75.07	75.68	75.87	75.87	76.51	77.2	77.88	78.82	79.5	79.62	79.74	80.82	82.06	83.75	85.33	120.22
200	71.64	73.87	74.91	75.72	75.82	75.19	75.07	75.42	75.94	76.37	76.64	77	77.97	77.82	77.64	78.24	79.29	80.35	81.04	81.44	82.08	83.19	84.53	120.69
250	73.81	75.04	75.08	74.92	75.12	75.56	76.09	76.59	77.19	77.57	77.71	78.34	78.97	79.78	80.29	80.37	80.52	81.14	81.97	82.52	82.79	82.94	83.04	121.67
320	74.91	76.53	76.35	76.1	76.21	76.64	77.24	77.88	78	77.82	78.24	79.08	79.67	79.76	80.3	80.91	80.59	80.44	80.66	80.7	80.74	81.04	81.42	121.7
400	74.23	76.15	76.12	75.88	76.15	76.9	77.68	77.84	78.11	78.77	78.68	79.02	79.36	79.49	79.67	79.81	79.89	79.61	79.26	79.25	79.06	78.56	78.6	121.27
500	75.42	77.84	77.14	76.49	76.98	78.05	78.92	78.78	78.31	78.77	79.21	78.93	78.9	79.62	80.39	80.41	79.92	79.58	79.4	78.98	78.37	77.82	77.66	121.65
630	76.24	78.23	77.76	77.35	77.77	78.4	78.67	78.78	78.85	78.82	78.98	79.15	79.11	78.72	79.28	79.99	79.41	78.81	78.32	77.41	76.63	76.25	76.29	121.47
800	78.27	79.92	79.27	79.21	79.55	79.93	80.11	79.92	79.64	79.61	79.73	79.99	80.43	80.38	80.52	80.52	79.23	78.25	77.71	76.82	75.93	75.27	75.01	122.46
1000	81.65	83.41	82.1	81.5	81.27	81.12	81.12	80.9	80.46	80.48	80.56	80.47	80.23	80.29	80.58	80.29	79	78.12	77.58	76.7	75.68	74.91	74.74	123.52
1300	81.27	82.34	81.5	80.74	80.27	80	79.84	79.48	79.21	79.57	80.11	80.36	80.54	80.2	80.2	80.26	79.18	78.15	77.27	76.07	75.04	74.55	74.53	122.87
1600	81.41	82.11	81.18	79.96	79.15	79.12	79.93	79.93	79.43	80.13	80.76	80.66	80.27	80.87	81.18	80.32	79.18	77.92	76.68	75.62	74.9	74.61	74.81	122.87
2000	80.2	80.78	80.02	79.13	79.21	79.79	80.37	80.12	79.73	80.13	80.59	80.87	80.21	80.26	80.39	79.74	78.51	77.32	76.25	75.18	74.36	73.97	74.11	122.56
2500	79.15	79.25	79.41	79.51	79.9	80.28	80.68	80.34	79.87	80.24	80.51	80.42	79.78	80.5	80.5	79.03	77.83	76.84	75.62	74.77	73.86	73.31	73.43	122.43
3200	78.25	77.83	78.2	79.56	80.5	80.82	81.02	80.49	80.18	80.93	80.96	80.74	80.2	80.27	79.9	78.77	77.58	76.27	75.06	74.13	73.41	72.87	72.99	122.48
4000	78.7	77.09	77.41	78.66	79.67	80.33	80.8	80.15	79.81	80.56	80.4	80.57	79.78	79.24	78.86	78.13	77.07	75.8	74.6	73.69	72.85	72.09	72.21	121.92
5000	75.07	76.39	77.23	77.89	78.32	78.97	80.17	79.56	78.38	79.38	79.66	79.53	78.44	78.11	78.09	77.46	76.3	75.07	73.91	72.89	71.98	71.35	71.47	120.97
6300	73.85	75.74	76.81	76.97	77.4	78.02	79.12	78.69	77.97	78.61	78.29	78.53	77.31	77.14	77.01	75.96	74.82	73.66	72.59	71.8	71.16	70.64	70.73	120
8000	72.85	75.23	76.36	76.84	77.11	77.47	78.39	77.92	77.01	77.7	77.6	77.57	76.34	76.26	75.84	74.49	73.64	72.88	72.05	71.24	70.44	69.73	69.58	119.25
10000	71.45	73.26	73.96	74.33	74.51	74.53	74.95	74.78	74.03	74.23	74.29	73.32	72.32	73.2	72.8	71.13	71.24	70.63	69.18	68.22	67.41	66.39	65.83	116.19
OASPL	90.38	91.62	91.26	91.13	91.29	91.62	92.06	91.89	91.6	92.01	92.21	92.33	92.2	92.38	92.59	92.44	91.87	91.69	91.66	91.77	92.18	93.07	94.65	134.86

NASA Lewis Allison AST Jet Noise Test 1996

rdg	243
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nacbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	906.4
m01	0.30131
pamb	14.364
tamb	495.821
rhumid	65.54
winds1	0
nprc	1.536
nprb	1.612
ptc	22.0631
ptb	23.1548
wactc	2.651
wactb	16.182
ttc	1318.95
ttb	502.84
ptmix	23.0011
ttmix	617.719
mixpnd	0.743841
grsvkp	17070.2
badchan	(07,08,25,26)
bkgnd	229
ascdate	22 Nov.96
asctime	17:23:47
DADSdate	97 08.18
DADStime	17:23:47
bichdate	22 Nov.96
bichtime	17:23:47

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 09:26:13 1997

Data ambient 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (ft)	1831.16	1732.05	1655.07	1586.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	80	65	70	75	80	85	90	95	100	105	110
64	49.57	52.22	52.46	54.41	52.77	51.7	51.3	53.67	55.19	54.35	53.68	53.24
80	46	50.68	51.89	51.29	52.67	52.45	52.98	54.1	53.34	51.27	53.6	53.81
100	49.38	51.54	51.1	52.21	51.68	53.63	53.47	52.68	52.74	54.2	53.89	55.56
130	48.74	52.45	52.57	53.65	54.92	55.12	54.47	54.88	54.07	55.26	55	55.37
160	49.82	52.24	53	53.84	54.09	54.71	56.08	55.14	55.93	55.7	56.13	56.86
200	52.05	53.94	54.79	55.33	55.75	56.31	56.73	56.16	57.48	57.84	56.2	58.49
250	51.97	54.03	53.72	53.49	54.35	55.68	56.77	57.27	56.78	56.3	56.15	56.64
320	51.33	54.48	54.68	54.81	55.29	56.47	57.48	56.94	57.56	58.11	57.61	57.25
400	51.63	54.47	54.53	54.38	55.68	56.78	57.12	57.52	56.98	57.11	57.83	57.8
500	52.08	54.51	54.82	55.06	55.76	56.81	57.54	57.13	57.18	57.18	56.81	56.63
630	53.61	57.89	57.55	57.83	58.43	58.65	58.68	57.81	57.46	57.53	57.87	58.01
800	55.79	57.58	57.18	56.77	56.63	56.58	56.65	58.35	57.67	57.23	57.02	56.56
1000	54.84	56.65	56.48	55.96	56.55	55.59	56.23	56.42	56.18	56.47	56.92	56.73
1300	54.21	55.44	55	54.22	54.2	55.11	55.82	56.33	55.81	56.42	56.95	56.63
1600	51.75	52.99	53.08	53.12	53.57	54.35	55.24	55.78	55.38	55.7	55.73	55.59
2000	48.64	49.67	50.61	51.86	53.31	53.95	54.24	55.05	54.51	54.94	54.96	54.33
2500	45	45.66	48.89	48.72	50.09	51.02	51.68	53.76	53.37	53.86	53.61	52.98
3200	39.07	40.65	42.24	44.24	45.61	46.66	47.93	51.17	50.78	51.13	50.78	50.38
4000	30.75	33.85	36.13	37.54	38.43	39.69	41.25	47.28	45.84	46.67	46.17	45.51
5000	16.53	22.39	25.91	27.97	29.86	31.05	32.45	40.92	40.1	40.42	39.65	39.13
6300	0	0	0	0	3.03	7.55	11.14	32.04	31	31.22	30.42	28.89
8000	0	0	0	0	0	0	0	9.9	0.35	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	64.13	66.49	66.52	66.75	67.15	67.74	68.23	68.52	68.43	68.57	68.67	68.7
PNL	74.34	76.18	76.25	76.55	77.34	78.03	78.53	78.58	78.2	78.52	78.52	78.2

distance: (ft)	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	56.11	55.22	54.33	54.22	54.24	56.06	55.02	54.49	53.33	52.37	55.84	119.43
80	53.38	55.45	55.55	55.26	54.29	55.7	55.77	55.19	54.79	54.54	54.36	119.51
100	54.93	54.8	56.39	56.22	55.58	55.84	55.30	55.09	54.9	54.8	54.93	119.89
130	55.28	55.92	55.09	56.02	55.94	55.63	54.78	54.34	53.95	53.42	52.24	119.86
160	56.8	57.26	56.99	57.52	56.79	57.27	56	54.97	53.8	52.76	52.44	120.68
200	59.12	59.46	59.38	58.68	57.62	56.07	56.84	55.88	55.15	53.19	50.06	121.92
250	56.98	56.84	57.12	56.97	55.94	54.6	55.25	53.76	52.18	50.26	47.76	120.31
320	57.4	57.34	57.41	56.87	55.8	54.54	53.41	51.91	49.95	47.05	44.5	120.44
400	57.17	56.49	58.22	55.81	54.41	52.83	52.88	51.06	48.51	45.5	41.83	119.98
500	56.35	56.19	56.4	56.15	53.8	51.8	51.22	48.77	46.02	42.92	39.22	119.62
630	57.7	57.14	56.44	55.13	53.09	50.98	49.94	47.34	44.21	40.75	36.15	120.66
800	56.02	55.43	55.05	54.4	52.24	50.04	49.02	46.32	42.93	38.95	34.31	119.75
1000	56.55	56.2	55.61	54.09	51.96	49.4	47.74	44.7	41.22	37.31	32.16	119.18
1300	55.34	55.07	54.59	52.94	50.52	47.83	46.44	43.24	39.77	35.8	30.43	118.39
1600	54.42	54.09	53.37	51.03	48.6	46.12	44.93	41.65	37.97	33.5	27.43	117.27
2000	53.42	53.09	51.91	49.65	47.14	44.13	43.28	39.84	35.65	30.59	23.88	116.13
2500	51.86	50.79	49.32	47.2	44.55	41.41	40.79	37.18	32.65	27.24	18.27	114.11
3200	48.54	47.15	45.88	43.75	40.83	37.29	37.82	33.78	28.79	21.56	0	110.86
4000	43.46	42.05	40.47	37.72	34.48	30.65	33.28	28.53	21.78	0	0	105.77
5000	36.95	35.38	33.27	29.75	25.64	19.63	25.85	17.1	0	0	0	99.04
6300	25.82	23.66	19.6	4.82	0	0	0	0	0	0	0	88.93
8000	0	0	0	0	0	0	0	0	0	0	0	66.45
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	68.51	68.41	68.19	67.68	66.47	65.85	65.38	64.29	63.22	62.1	61.91	131.91
PNL	77.46	77.08	76.29	74.75	72.68	70.66	68.81	66.55	64.3	61.32	57.83	76.82

NASA Lewis Allison AST Jet Noise Test 1996

rdg	244
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	959.36
m01	0.30009
pamb	14.368
tamb	495.627
rhumid	67.41
winds1	0
nprc	1.742
nprb	1.823
ptc	25.0291
ptb	26.1929
wactc	3.037
wactb	18.509
ttc	1408.27
ttb	502.954
ptmix	26.0295
ttmix	630.031
mixpnd	0.778572
grsvixp	20756.7
badchan	(26)
bkgnd	229
escdate	22 Nov.96
esctime	17:29:45
DADSdate	97.08.25
DADStime	17:29:45
btchdate	22.Nov.96
btchtime	17:29:45

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 10:02:31 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	72.98	74.5	73.82	73.48	73.65	75.2	74.89	75.05	75.67	75.19	75.09	76.48
100	75.32	77.16	77.96	75.75	76.65	77.71	78.01	77.58	78.54	79.09	78.59	76.77
130	75.34	76.96	78.02	77.11	77.18	77.04	77.2	76.39	76.06	77.23	77.74	77.38
160	75.86	78.07	79.29	77.77	78.29	78.67	78.2	78.43	79.64	79.09	79.5	80.1
200	76.27	78.36	79.73	78.63	79.47	79.16	79.96	79.39	79.83	80.32	80.54	80.07
250	77.7	78.16	79.35	79.37	79.04	79.59	79.39	80.07	80.61	80.66	80.58	82.71
320	77.66	80.34	80.18	79.46	79.31	79.61	79.77	80.36	81.01	81.12	81.03	82.12
400	79.18	80.53	81.12	80.05	80.25	80.93	81.44	81.66	82.59	82.36	82.78	83.64
500	80.6	81.63	81.39	80.96	81.23	81.24	80.81	80.79	81.43	82.02	82.98	83.25
630	80.89	82.71	82.86	82.06	82.34	81.63	82.05	81.87	82.12	82.78	83.09	83.71
800	82.97	83.86	83.26	83.7	83.15	82.97	82.65	82.9	83.69	83.91	84.37	84.95
1000	84.73	85.44	84.83	84.71	84.43	83.5	83.82	84.12	84.59	85.01	84.96	85.97
1300	85.91	85.49	85.3	86.34	84.51	83.86	83.85	83.84	84.53	84.45	84.38	85.69
1600	86.75	86.53	86.31	85.96	85.11	84.27	84.08	84.36	85.11	85.43	85.24	86.14
2000	86.97	86.64	86.56	85.87	85.67	84.54	84.43	84.89	85.39	85.67	86.02	86.77
2500	87.11	86.94	87	86.47	86.19	85.06	84.75	85.16	85.23	85.67	86.41	86.55
3200	87.41	86.95	87.06	87.03	86.99	85.2	85.53	85.59	86.07	86.47	86.46	87.31
4000	86.9	87.24	87.24	87.6	87.03	85.14	85.79	85.41	85.96	86.66	86.76	87.23
5000	85.6	87.06	87.23	87.29	86.04	84.59	85.5	85.04	85.29	86.32	86.3	86.83
6300	84.55	86.01	86.42	86.4	85.52	83.92	85.01	84.82	85.46	85.96	85.37	86.04
8000	82.6	85.11	85.2	85.77	84.91	83.25	84.64	84.28	85.19	85.55	85.27	85.54
10000	80.29	82.76	81.95	83.13	83.06	81.65	81.52	81.39	82.12	82.13	82.25	81.62
OASPL	96.95	97.54	97.56	97.43	97.01	95.96	96.29	96.3	96.86	97.25	97.34	97.96

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.4	77.34	78.24	80.02	81.01	82.49	84.52	86.47	88.56	91.13	94.1	123.95
100	77.83	79.61	79.67	79.39	81.53	84.08	86.12	87.96	89.87	92.06	94.75	125.34
130	78.25	79.94	81.16	81.79	82.71	84.24	86.03	87.59	89.23	91.31	93.93	125.06
160	81	81.63	82.29	83.04	83.76	85.63	87.86	89.1	90.11	91.66	93.55	126.23
200	82.12	83.01	83.13	83.91	85.05	86.3	87.3	87.93	88.51	89.22	89.84	125.9
250	83.1	83.15	84.33	85.77	86.18	87.04	88.11	88.44	88.97	90.18	90.92	126.67
320	83.79	84.32	84.38	84.8	85.71	86.93	87.78	87.72	87.5	87.52	87.57	126.3
400	84.29	84.6	84.95	85.23	85.26	85.74	86.43	87.02	86.93	86.18	86.04	126.48
500	83.64	84.16	84.52	84.84	85.4	85.32	85.02	85.1	84.74	83.68	83.5	125.96
630	83.65	84.19	84.63	84.51	84.38	84.32	84.06	83.34	82.72	82.47	82.33	126.02
800	85.39	85.2	85.2	85.23	84.35	83.73	83.4	82.82	82.11	81.42	80.96	126.83
1000	86.35	86.31	86.16	85.59	84.26	83.47	83.02	82.02	81.06	80.5	80.46	127.67
1300	86.49	86.63	86.21	85.16	83.65	82.75	82.47	81.87	81.03	80.2	79.81	127.63
1600	87.39	87.53	86.95	85.83	83.9	82.86	82.4	81.33	80.26	79.73	79.81	128.29
2000	87.43	87.46	87.24	86.3	84.03	82.81	82.36	81.17	80.13	79.92	80	128.55
2500	87.53	87.41	86.96	86.2	84.28	82.83	81.96	80.91	79.77	78.95	79.4	128.7
3200	87.86	87.62	87.02	85.89	83.97	82.79	82.19	81.12	80.01	79.4	79.86	129.03
4000	87.84	86.57	85.81	85.54	83.65	82.38	81.83	80.79	79.44	78.41	79.24	128.94
5000	87	85.71	85	84.68	82.71	81.33	80.72	79.78	78.5	77.47	78.54	128.38
6300	86.29	84.89	83.97	83.45	81.57	80.34	79.82	78.88	77.58	76.64	77.87	127.68
8000	85.34	83.84	83.03	82.59	80.6	79.35	78.97	78.24	76.93	75.69	77.02	126.99
10000	81.51	80.49	79.64	79.64	78.32	78.7	75.6	75.06	74.04	72.48	73.32	124.07
OASPL	98.55	98.35	98.15	97.9	97.23	97.38	97.96	98.34	98.87	99.97	101.72	140.51

NASA Lewis Allison AST Jet Noise Test 1996

rdg	244
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	DP20
nozbld	BASE
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	959.36
m01	0.30009
pamb	14.366
tamb	495.827
rhumid	67.41
winds1	0
nprc	1.742
nprb	1.823
ptc	25.0291
ptb	26.1929
wactc	3.037
wactb	18.599
ttc	1408.27
ttb	502.954
ptmix	26.0295
ttmix	630.031
mixpnd	0.779572
gravixp	20756.7
badchan	(26)
bkgnd	229
escdate	22.Nov.96
esctime	17:29.45
DADSdate	97.08.25
DADStime	17:29:45
btchdate	22.Nov.96
btchtime	17:29:45

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:02:41 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1506.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	52.29	53.65	53.82	56.49	55.13	56.71	56.45	55.01	57.02	54.28	55.89	55.5
80	51.48	55.42	55.87	53.72	56.79	56.48	57.63	57.51	57.07	57.14	57.57	55.74
100	54.29	55.85	57.03	55.77	56.14	57.55	56.38	56.27	55.58	57.25	57.36	58.32
130	53.99	57.03	58.88	56.14	59.63	59.08	59.05	58.25	58.85	59.16	58.96	59.75
160	53.83	56.36	57.33	56.38	58.07	59.11	59.5	59.11	59.97	59.88	60.53	60.9
200	55.73	56.77	58.88	58.77	58.98	59.49	59.4	59.65	60.8	60.83	60.11	61.79
250	54.97	57.95	57.84	57.61	58.54	59.4	60.42	59.74	60	60.01	60	60.72
320	55.85	58.43	59.11	58.97	59.56	59.82	59.55	60.74	62	61.64	61.67	62.08
400	56.95	56.43	59.28	58.95	60.14	59.64	60.25	59.53	59.9	60.56	61.53	61.79
500	56.82	59.2	59.31	59.95	59.75	60.28	60.3	60.31	60.73	61.41	61.55	61.56
630	58.33	60.42	60.48	61.21	61.42	60.72	61.29	60.8	61.57	61.67	62.08	62.8
800	59.13	60.3	60.17	60.85	60.36	60.01	60.88	61.58	61.99	62.07	61.5	62.13
1000	59.72	60.2	61.01	61.27	60.81	60.41	60.15	60.79	61.52	61.4	61.25	62.47
1300	59.79	60.28	60.68	60.58	60.71	59.97	60.18	60.75	61.56	62.02	61.51	61.97
1600	58.36	59.07	60.05	59.97	60.15	59.46	59.22	60.57	60.97	60.95	61.38	61.48
2000	57.08	57.72	58.52	58.91	59.34	58.17	58.61	59.88	59.98	60.24	60.61	60.77
2500	54.25	55.04	56.03	56.93	57.41	55.88	56.68	58.84	59.35	59.63	59.4	59.73
3200	49.35	51.26	52.19	53.58	53.04	51.97	53.2	56.47	56.91	57.55	57.19	57.24
4000	41.28	44.46	46	46.86	46.78	45.68	47	52.71	52.79	53.82	53.07	52.81
5000	29.85	33.71	36.03	37.35	37.74	36.65	38.52	47.03	47.6	47.92	48.98	46.94
6300	0	12.13	18.8	21.75	22.37	22.04	23.63	38.39	39.29	39.19	38.15	37.18
8000	0	0	0	0	0	0	0	23.09	23.42	22.08	20.73	15.75
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	69.07	70.57	71.23	71.31	71.68	71.53	71.77	72.15	72.74	72.9	72.95	73.43
PNL	80.43	81.66	82.51	82.63	82.97	82.39	82.69	83.03	83.55	83.8	83.78	84.03

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	57.61	57.99	57.34	56.04	56.5	60.58	59.79	60.15	59.79	59.67	63.48	123.91
80	55.8	58.41	58.45	58.17	58.13	60.64	61.53	61.75	61.76	61.74	61.63	124.8
100	58.72	58.74	60.25	60.45	60.1	61.83	61.22	61.4	61.44	61.57	61.64	125.12
130	60.2	61.41	60.72	61.47	61.21	61.15	62.92	62.83	62.03	61.35	60.43	126.03
160	61.01	61.58	61.44	62.84	62.47	63.28	62.26	61.49	60.29	58.89	57.73	125.8
200	62.63	62.38	62.54	62.37	62.54	62.37	63.05	61.82	61.01	59.97	57.71	126.3
250	61.41	62.35	62.28	62.11	61.7	61.17	62.39	60.83	59.19	56.99	54.08	125.43
320	62.2	61.98	61.94	61.54	61.12	60.19	60.8	59.7	57.87	54.78	51.8	125.3
400	61.59	61.4	61.49	60.85	59.66	58.43	58.45	57.2	54.88	51.32	47.34	124.35
500	61.63	61.24	60.86	60.27	58.63	57.36	56.94	54.71	52.1	49.23	45.46	124.1
630	62.89	62.33	61.75	60.5	58.28	56.23	55.77	53.35	50.43	46.93	42.2	124.74
800	62.41	61.98	60.94	59.4	57.11	54.87	54.47	51.61	48.27	44.55	39.94	124.27
1000	62.8	62.59	61.55	59.53	56.38	54.05	52.9	50.49	47.2	42.94	37.45	124.3
1300	62.66	62.3	61.05	59.07	55.86	53.34	52.06	48.94	45.19	40.89	35.4	124.08
1600	61.64	60.91	59.91	58.23	55.03	52.16	51.01	47.63	43.71	39.45	33.38	123.28
2000	61.22	60.13	58.82	56.89	53.49	50.57	49.43	45.97	41.54	36.25	29.82	122.34
2500	59.65	58.23	56.25	54.42	51.05	47.99	47.9	44.12	39.51	33.85	26.44	120.68
3200	56.93	54.6	52.84	50.86	47.26	43.63	45.05	40.94	35.32	28.31	18.31	117.7
4000	52.01	49.81	47.65	45.37	41.28	37.27	40.13	35.44	29.19	19.09	0	112.88
5000	46.06	42.98	40.25	37.67	32.99	28.07	33.11	27.58	17.04	0	0	106.52
6300	35.44	32.23	28.89	24.87	16.62	0	22.17	2.77	0	0	0	96.95
8000	9.43	0	0	0	0	0	0	0	0	0	0	79.41
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	73.73	73.57	73.1	72.51	71.52	71.51	71.69	70.94	70	69.1	69.01	136.97
PNL	84.29	83.49	82.45	81.04	78.55	78.88	75.58	73.54	71.26	68.81	65.8	82.44

75%L, 12TH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: B, C, D, F, G, H, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	469
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	827.6
m01	0.001
pamb	14.159
tamb	503.954
rhumid	78.4
winds1	0
nprc	1.369
nprb	1.443
ptc	19.6669
ptb	20.4314
wactc	2.88
wactb	13.122
ttc	1166.82
ttb	498.641
ptmix	20.2938
ttmix	618.898
mbxpnd	0.678526
gravwp	13243.3
badchan	{26}
bkgnd	457
escdate	05.Dec.96
esctime	20:42:20
DADSdate	05.Dec.96
DADStime	20:42:20
btchdate	05.Dec.96
btchtime	20:42:20

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 05:55:26 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	70.82	71.95	72.92	73.61	74.08	74.42	74.69	74.97	75.34	75.87	76.64	77.89
100	73.06	73.67	73.89	74.04	74.38	75.04	75.82	76.41	76.65	76.79	77.11	77.77
130	72.33	73.38	74.01	74.33	74.43	74.4	74.35	74.38	74.58	75.05	75.89	77.15
160	73.82	74.65	75.45	76.18	76.8	77.31	77.75	78.16	78.56	78.93	79.3	79.76
200	74.63	75.71	76.69	77.56	78.26	78.83	79.26	79.83	79.96	80.37	80.83	81.41
250	75.41	76.55	77.6	78.57	79.39	80.02	80.48	80.85	81.19	81.59	82.11	82.79
320	76.96	78.06	78.94	79.66	80.26	80.79	81.29	81.77	82.25	82.72	83.21	83.76
400	77.01	78.61	79.84	80.75	81.44	81.99	82.44	82.86	83.3	83.8	84.39	85.1
500	77.68	79.17	80.24	81.01	81.61	82.12	82.58	83.02	83.47	83.99	84.61	85.36
630	77.99	80.33	81.82	82.71	83.23	83.59	83.91	84.33	84.86	85.38	85.96	86.65
800	79.01	81.22	82.65	83.52	84.05	84.4	84.68	85.05	85.57	86.22	86.95	87.69
1000	79.77	82.45	83.71	84.13	84.28	84.54	85.04	85.71	86.43	87.01	87.59	88.17
1300	79.97	82.59	83.88	84.49	84.81	85.13	85.57	86.19	86.84	87.34	87.93	88.56
1600	80.09	82.63	83.85	84.26	84.7	85.24	85.85	86.42	86.96	87.64	88.23	88.85
2000	80.09	82.72	83.58	84.22	84.85	85.25	85.7	86.31	86.9	87.58	88.38	88.97
2500	80.28	82.85	83.41	83.9	84.36	84.83	85.4	86.07	86.8	87.44	88.15	88.8
3200	79.73	82.26	83	83.95	84.73	84.89	85.34	85.83	86.61	87.16	87.72	88.3
4000	79.41	81.88	82.21	83.35	84.01	84.13	84.92	85.24	85.72	86.4	87.26	87.77
5000	78.44	80.76	81.23	82.04	82.66	83.09	83.81	84.36	84.81	85.5	86.33	86.89
6300	77.03	79.76	80.31	81.25	81.87	82.08	82.98	83.72	84.15	84.83	85.37	85.66
8000	75.8	78.73	79.66	80.63	81.12	81.37	82.34	82.89	83.43	84.15	84.88	85.1
10000	72.49	75.17	76.59	78.07	79.13	79.6	79.77	80.18	80.82	81.41	82.04	81.77
OASPL	91.14	93.43	94.36	95.12	95.66	96.03	96.56	97.08	97.64	98.23	98.89	99.46

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.98	80.43	81.99	83.61	85.2	86.72	88.11	89.29	90.22	90.83	0	125.24
100	78.74	79.99	81.48	83.16	85	86.88	88.56	89.77	90.21	89.68	0	125.27
130	78.73	80.51	82.38	84.21	85.87	87.25	88.22	88.65	88.43	87.44	0	124.75
160	80.5	81.56	82.94	84.41	85.83	87.07	88.03	88.61	88.73	88.34	0	125.41
200	82.12	82.99	83.96	84.99	85.92	86.59	86.7	85.99	84.65	83.8	0	125.12
250	83.59	84.58	85.69	86.73	87.46	87.76	87.67	87.15	86.09	84.46	0	126.44
320	84.4	85.14	85.94	86.69	87.23	87.39	86.92	85.64	83.92	82.49	0	126.58
400	85.84	86.5	87	87.31	87.36	87.08	86.35	85.21	83.81	82.27	0	127.28
500	86.26	87.19	88.02	88.64	88.8	88.38	87.51	86.3	84.69	82.56	0	128.01
630	87.38	88.08	88.62	88.72	88.28	87.35	86.05	84.56	82.91	81.11	0	128.51
800	88.39	88.87	89.04	88.92	88.52	87.83	86.84	85.56	83.96	82.02	0	129.22
1000	88.54	88.84	89.05	89.02	88.65	87.81	86.54	85.04	83.23	81.16	0	129.5
1300	89.15	89.57	89.58	89.18	88.49	87.52	86.25	84.65	82.64	80.07	0	129.82
1600	89.49	89.82	89.56	89.02	88.34	87.45	86.29	84.71	82.6	79.92	0	129.95
2000	89.52	89.81	89.51	88.53	87.66	86.89	85.79	84.31	82.21	79.21	0	129.83
2500	89.05	89.5	89.52	88.32	87.31	86.51	85.53	84.25	82.33	79.31	0	129.59
3200	88.78	89.19	88.92	87.8	87.21	86.42	85.51	84.41	82.49	79.24	0	129.33
4000	87.7	87.68	87.92	87.19	86.26	85.17	84.2	83.37	81.68	78.58	0	128.49
5000	86.76	86.49	86.44	85.71	84.9	83.8	82.85	82.1	80.26	77.19	0	127.37
6300	85.68	85.53	85.23	84.32	83.35	82.07	80.88	79.71	77.78	75.09	0	126.3
8000	84.69	84.23	83.72	82.99	82.12	80.58	79.08	77.54	75.48	73.12	0	125.38
10000	81.5	81.4	81.46	80.68	79.14	77.02	75.14	73.81	71.38	68.71	0	122.61
OASPL	99.91	100.32	100.53	100.38	100.23	99.96	99.62	99.15	98.41	97.39	0	141.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg 469
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 827.6
m01 0.001
pamb 14.159
tamb 503.954
rhumid 78.4
winds1 0
nprc 1.389
nprb 1.443
ptc 19.6669
ptb 20.4314
wactc 2.88
wactb 13.122
ttc 1166.82
ttb 498.641
ptmix 20.2838
ttmix 618.898
mixpnd 0.678526
grsvixp 13243.3
badchan [26]
bkgnd 457
escdate 05.Dec.96
esctime 20:42:20
DADSdate 05.Dec.96
DADStime 20:42:20
btchdate 05.Dec.96
btchtime 20:42:20
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:55:32 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	48.83	50.65	52.02	53.02	53.74	54.24	54.61	54.93	55.27	55.7	56.3
100	51.26	52.34	52.95	53.43	54.01	54.83	55.72	56.34	56.54	56.58	56.74
130	50.45	51.99	53.03	53.67	54.01	54.15	54.2	54.26	54.43	54.8	55.47
160	51.86	53.19	54.39	55.44	56.31	56.99	57.53	57.96	58.34	58.61	58.81
200	52.56	54.14	55.53	56.73	57.69	58.42	58.95	59.35	59.67	59.95	60.24
250	53.16	54.81	56.26	57.57	58.65	59.45	60.02	60.41	60.72	61.01	61.36
320	54.47	56.06	57.39	58.45	59.32	60.04	60.64	61.16	61.6	61.97	62.28
400	54.15	56.29	57.97	59.24	60.2	60.93	61.5	61.96	62.36	62.75	63.15
500	54.39	56.46	57.99	59.13	60.01	60.71	61.28	61.75	62.16	62.56	62.99
630	54.17	57.11	59.1	60.37	61.2	61.76	62.21	62.67	63.16	63.56	63.93
800	54.66	57.5	59.44	60.72	61.55	62.12	62.53	62.94	63.43	63.95	64.46
1000	54.84	58.19	59.99	60.84	61.31	61.8	62.43	63.15	63.62	64.27	64.62
1300	54.47	57.79	59.65	60.7	61.35	61.9	62.48	63.14	63.74	64.1	64.45
1600	53.87	57.36	58.96	59.88	60.65	61.43	62.19	62.81	63.33	63.65	64.19
2000	53.02	56.44	57.94	59.07	60.07	60.74	61.36	62.01	62.55	63.07	63.61
2500	51.98	55.43	56.68	57.72	58.6	59.33	60.06	60.79	61.47	61.94	62.36
3200	49.66	53.15	54.67	56.2	57.43	57.92	58.55	59.2	59.82	60.18	60.42
4000	46.54	50.21	51.41	53.25	54.48	54.9	55.91	56.32	56.73	57.18	57.64
5000	41.45	45.1	46.66	48.3	49.54	50.4	51.38	52.01	52.39	52.84	53.24
6300	33.42	37.89	38.77	41.73	43.13	43.9	45.09	45.97	46.31	46.64	46.62
8000	20.66	27.21	30.06	32.43	33.91	34.85	36.3	37.04	37.45	37.75	37.79
10000	0	0	0	7.89	16.19	19.22	20.53	21.21	21.63	21.98	21.66
OASPL	65.53	68.14	69.73	70.84	71.67	72.31	72.9	73.44	73.93	74.35	74.73
PNL	75.19	78.36	79.83	81.01	81.94	82.62	83.32	83.96	84.51	84.98	85.35

distance: (	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	57.11	58.06	59.13	60.21	61.23	62.13	62.82	63.2	63.18	62.63	61.36	0	125.16
100	57.15	57.81	58.86	59.65	60.75	61.89	62.93	63.6	63.59	62.55	60.14	0	125.14
130	56.49	57.75	59.13	60.5	61.74	62.7	63.23	63.19	62.39	60.86	57.77	0	124.55
160	59.03	59.44	60.12	60.99	61.86	62.56	62.95	62.88	62.22	60.81	58.47	0	125.11
200	60.57	60.96	61.41	61.9	62.3	62.5	62.3	61.37	59.39	56.69	53.64	0	124.72
250	61.78	62.25	62.82	63.41	63.83	63.83	63.23	62.06	60.23	57.55	53.62	0	125.82
320	62.56	62.86	63.17	63.44	63.55	63.32	62.56	60.97	58.32	54.89	51.25	0	125.75
400	63.59	63.96	64.19	64.13	63.77	63.02	61.76	59.66	57.29	54.07	50.14	0	126.11
500	63.46	64	64.46	64.71	64.64	63.96	62.51	60.36	57.62	54.05	49.28	0	126.36
630	64.32	64.67	64.88	64.81	64.17	62.84	60.82	58.19	55.04	51.26	46.59	0	126.46
800	64.9	65.19	65.16	64.68	63.78	62.43	60.58	58.18	55.11	51.21	46.14	0	126.64
1000	64.88	64.83	64.58	64.12	63.28	61.9	59.84	57.07	53.66	49.36	43.86	0	126.42
1300	64.75	64.9	64.75	64.05	62.79	61.04	58.77	55.88	52.23	47.52	41.24	0	126.22
1600	64.44	64.62	64.35	63.36	61.89	60.09	57.81	54.92	51.11	46.06	39.38	0	125.71
2000	63.83	63.88	63.53	62.43	60.46	58.39	58.1	53.13	49.24	43.93	38.45	0	124.82
2500	62.61	62.31	62.07	61.2	58.92	56.6	54.16	51.09	47.12	41.6	33.52	0	123.47
3200	60.56	60.44	60.09	58.86	56.64	54.44	51.77	48.46	44.26	38.2	29.01	0	121.59
4000	57.62	56.9	56.04	55.14	52.96	50.23	46.94	43.16	38.62	31.96	20.86	0	118.32
5000	53.18	52.21	50.84	49.43	47	44.05	40.23	35.85	30.61	21.74	0	0	113.55
6300	46.15	45.16	43.7	41.69	38.51	34.73	29.97	23.73	10.74	0	0	0	108.81
8000	37.01	35.18	32.91	30.02	26.02	20.48	3.1	0	0	0	0	0	97.42
10000	19.66	15.39	4.29	0	0	0	0	0	0	0	0	0	80.48
OASPL	75.06	75.29	75.39	75.23	74.83	74.27	73.5	72.47	71.08	69.22	66.67	0	137.82
PNL	85.59	85.51	85.34	84.74	83.32	81.72	79.82	77.4	74.35	70.7	68.27	0	83.89

NASA Lewis Allison AST Jet Noise Test 1996

rdg	470
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	955.73
m01	0.00171
pamb	14.1577
tamb	502.1
rhumid	81
winds t	0
nprc	1.542
nprb	1.615
ptc	21.8312
ptb	22.8647
wactc	3.14
wactb	15.454
ttc	1303.08
ttb	496.79
ptmix	22.6902
ttmix	632.949
mixpnd	0.77483
grsvixp	17770.8
badchan	(26)
bkgnd	457
escdate	05.Dec.96
esctime	20:54:25
DADSdate	05.Dec.96
DADStime	20:54:25
btchdate	05.Dec.96
btchtime	20:54:25

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 05:57:55 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.99	76.91	77.88	78.29	78.82	79.28	79.7	80.1	80.5	80.95	81.45	82.05	82.81	83.78	85.04	86.64	88.62	90.92	93.2	95.15	96.43	96.71	0	130.31
100	77.05	77.97	78.7	79.26	79.75	80.15	80.51	80.87	81.28	81.77	82.37	83.12	84.08	85.3	86.81	88.88	90.94	93.44	95.68	97.16	97.4	95.94	0	131.75
130	77.56	78.02	78.26	78.36	78.39	78.42	78.53	78.77	79.18	79.82	80.73	81.97	83.5	85.3	87.28	89.36	91.47	93.46	95.14	96.24	96.47	95.55	0	131.26
160	79.9	80.41	80.82	81.15	81.44	81.72	82.04	82.41	82.89	83.49	84.25	85.2	86.33	87.61	89.01	90.5	92.04	93.51	94.52	94.69	94.24	93.76	0	131.25
200	80.31	81.18	81.8	82.23	82.52	82.72	82.91	83.13	83.44	83.9	84.57	85.48	86.65	88.08	89.54	90.61	91.58	92.49	93.09	93.14	92.59	91.45	0	130.87
250	80.49	81.43	82.18	82.77	83.26	83.69	84.1	84.53	85.03	85.61	86.31	87.18	88.16	89.3	90.52	91.69	92.65	93.27	93.37	92.81	91.63	89.95	0	131.35
320	81.33	82.33	83.09	83.65	84.07	84.39	84.69	84.99	85.36	85.85	86.5	87.49	88.71	89.53	90.56	91.53	92.14	92.2	91.7	90.58	89.07	87.64	0	130.9
400	81.18	82.37	83.23	83.91	84.5	85.08	85.68	86.31	86.9	87.36	88.06	89	89.82	90.36	90.78	91.15	91.35	91.29	90.88	89.97	88.86	87.2	0	131.15
500	82.29	83.5	84.36	84.99	85.49	85.94	86.37	86.82	87.31	87.85	88.48	89.29	90.31	91.21	91.96	92.51	93.06	92.7	91.78	90.69	89.43	87.85	0	132.08
630	82.23	83.89	84.95	85.89	86.31	86.91	87.48	87.99	88.44	88.92	89.56	90.38	91.34	92.25	92.92	93.3	93.18	92.44	91.27	89.8	88.21	86.72	0	132.66
800	83.42	85.09	86.11	86.74	87.23	87.74	88.3	88.91	89.58	90.26	90.97	91.71	92.4	93.05	93.56	93.74	93.51	92.84	91.8	90.47	88.89	87.14	0	133.48
1000	84.5	86.39	87.16	87.4	87.69	88.24	88.79	89.38	89.98	90.57	91.1	91.75	92.71	93.4	93.72	93.62	93.23	92.61	91.74	90.53	88.91	86.82	0	133.67
1300	84.24	86.28	87.19	87.52	87.73	88.16	88.88	89.68	90.4	91.14	91.85	92.53	93.2	93.84	94.11	93.68	93.36	92.74	91.71	90.27	88.37	86	0	133.96
1600	84.43	86.6	87.38	87.72	88.12	88.81	89.54	90.09	90.67	91.48	92.04	92.51	93.62	94.56	94.48	93.6	93.1	92.49	91.51	90.15	88.15	85.34	0	134.18
2000	84.9	86.99	87.33	87.62	88.19	89.18	90.01	90.35	90.78	91.42	92.17	92.94	93.68	94.49	94.53	93.59	92.97	92.2	91.18	89.89	87.97	85.19	0	134.24
2500	85.19	86.86	86.94	87.59	88.26	88.92	89.89	90.27	90.78	91.47	92.22	92.92	93.72	94.41	94.43	93.5	93.02	92.38	91.44	90.29	88.37	85.17	0	134.22
3200	84.53	86.26	86.8	87.51	88.19	88.78	89.61	90.18	90.85	91.37	92	92.71	93.48	94.16	94.15	93.14	92.64	92.14	91.53	90.77	89.12	85.86	0	134.04
4000	83.76	85.74	86.14	86.92	87.42	87.96	89.06	89.5	89.96	90.65	91.49	92.17	92.59	92.79	92.9	92.23	91.65	91.12	90.62	90.24	88.78	85.66	0	133.21
5000	82.89	84.74	85.11	85.47	85.84	86.8	88.06	88.61	89.02	89.72	90.58	91.19	91.31	91.38	91.25	90.54	90.03	89.49	89.04	88.54	87.03	83.94	0	131.92
6300	82.17	83.64	83.81	84.58	85.18	85.75	86.81	87.62	88.19	88.87	89.35	89.87	90.28	90.29	90.04	89.12	88.61	88.05	87.36	86.43	84.43	81.56	0	130.73
8000	80.93	82.6	82.83	83.61	84.2	84.75	85.83	86.66	87.15	87.8	88.62	89.24	89.31	89.18	88.69	88.03	87.37	86.28	85.31	84.01	81.54	78.74	0	129.83
10000	77.78	79.08	79.48	80.81	81.9	82.57	83.02	83.63	84.14	84.67	85.48	85.68	85.97	86.23	86.2	85.62	84.25	82.7	81.29	79.86	77.12	73.89	0	126.58
OASPL	95.81	97.45	98.08	98.6	99.09	99.69	100.42	100.96	101.49	102.14	102.82	103.52	104.27	104.94	105.28	105.18	105.28	105.35	105.4	105.32	104.78	103.58	0	145.74

NASA Lewis Allison AST Jet Noise Test 1996

rdg 470
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nalrbid NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 955.73
m01 0.00171
pamb 14.1577
tamb 502.1
rhumid 81
winds1 0
nprc 1.542
nprb 1.615
ptc 21.8312
ptb 22.8647
wactc 3.14
wactb 15.454
ttc 1303.08
ttb 496.79
ptmix 22.8902
ttmix 832.949
mixpnd 0.77483
grsvisp 17770.8
badchan (26)
bkgnd 457
escdate 05.Dec.96
esctime 20:54:25
DADSdate 05.Dec.96
DADStime 20:54:25
blchdate 05.Dec.96
blchtime 20:54:25
**Scenario, Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:58:00 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500
yaw angle	55	60	65	70	75	80	85	90
roll angle (	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90
80	54.21	55.61	56.76	57.71	58.48	59.11	59.62	60.05
100	55.23	56.63	57.76	58.66	59.38	59.94	60.41	60.8
130	55.69	56.63	57.26	57.7	57.97	58.17	58.38	58.65
160	57.94	58.95	59.76	60.42	60.95	61.41	61.82	62.23
200	58.23	59.6	60.64	61.39	61.93	62.31	62.59	62.85
250	58.23	59.69	60.85	61.78	62.52	63.12	63.63	64.1
320	58.82	60.35	61.54	62.44	63.12	63.63	64.03	64.37
400	58.32	60.06	61.36	62.39	63.26	64.02	64.73	65.4
500	59.01	60.79	62.12	63.11	63.89	64.53	65.09	65.57
630	58.43	60.7	62.25	63.37	64.27	65.07	65.77	66.32
800	59.08	61.37	62.9	63.94	64.74	65.47	66.15	66.81
1000	59.58	62.13	63.44	64.12	64.72	65.5	66.19	66.82
1300	58.72	61.46	62.94	63.72	64.26	64.93	65.79	66.64
1600	58.21	61.14	62.51	63.32	64.07	65.01	65.89	66.49
2000	57.81	60.7	61.67	62.45	63.4	64.64	65.65	66.05
2500	56.88	59.23	60.22	61.4	62.47	63.42	64.35	64.98
3200	54.49	57.15	58.42	59.74	60.9	61.82	62.84	63.44
4000	50.9	54.03	55.33	56.83	57.88	58.74	60.05	60.57
5000	45.66	49.1	50.54	51.72	52.71	54.14	55.68	56.29
6300	38.52	41.71	43.23	45.05	46.5	47.63	48.96	49.88
8000	26.79	31.29	33.42	35.54	37.05	38.32	39.89	40.9
10000	0	0	6.24	17.02	21.2	23.3	24.88	25.85
OASPL	70.22	72.3	73.55	74.46	75.22	75.97	76.68	77.24
PNL	80.04	82.43	83.61	84.7	85.65	86.54	87.43	88.02

distance: (	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.18	1958.11
yaw angle	95	100	105	110	115	120	125	130
roll angle (	0	0	0	0	0	0	0	0
frequency	95	100	105	110	115	120	125	130
80	60.43	60.77	61.1	61.46	61.9	62.48	63.26	64.27
100	61.18	61.56	61.99	62.51	63.15	63.96	64.99	66.27
130	59.03	59.56	60.31	61.3	62.52	63.91	65.4	66.9
160	62.67	63.17	63.76	64.47	65.27	66.15	67.05	67.94
200	63.13	63.49	63.98	64.65	65.49	66.51	67.46	67.92
250	64.56	65.04	65.56	66.16	66.83	67.55	68.26	68.8
320	64.71	65.09	65.58	66.29	67.17	67.56	68.06	68.4
400	65.95	66.32	66.82	67.48	67.94	68.04	67.92	67.61
500	66.02	66.44	66.87	67.41	68.05	68.49	68.68	68.53
630	66.72	67.09	67.51	68.06	68.64	69.06	69.12	68.75
800	67.44	68	68.5	68.93	69.21	69.33	69.2	68.6
1000	67.37	67.84	68.14	68.47	69.01	69.15	68.81	67.9
1300	67.31	67.9	68.37	68.72	68.95	69.02	68.59	67.28
1600	67.02	67.67	67.99	68.12	68.76	69.06	68.25	66.48
2000	66.44	66.91	67.4	67.79	68.03	68.19	67.43	65.53
2500	65.45	65.97	66.44	66.73	66.99	66.96	66.11	64.13
3200	63.86	64.38	64.69	64.95	65.13	65.04	64.04	61.82
4000	60.96	61.44	61.89	62.05	61.83	61.13	60.1	58.01
5000	56.61	57.02	57.47	57.46	56.73	55.72	54.23	51.81
6300	50.37	50.75	50.88	50.38	49.73	48.37	46.41	43.29
8000	41.17	41.39	41.55	41.18	39.9	37.98	35.12	31.43
10000	26.08	26.07	25.83	24.68	22.66	19.47	11.72	0
OASPL	77.72	78.2	78.64	79.09	78.57	79.89	79.89	79.58
PNL	88.49	88.99	89.43	89.77	90.07	90.13	89.63	88.35

distance: (	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	
frequency	135	140	145	150	155	160	165	PWL
80	65.55	67.01	68.3	69.05	68.85	67.26	0	130.22
100	67.83	68.48	70.72	70.99	69.74	68.4	0	131.62
130	68.29	69.44	70.11	69.96	68.7	65.88	0	131.04
160	68.77	69.38	69.37	68.3	66.32	63.88	0	130.94
200	68.17	68.21	67.77	66.54	64.41	61.28	0	130.23
250	69.02	68.74	67.78	65.91	63.11	59.33	0	130.72
320	68.23	67.36	65.73	63.24	60.02	56.4	0	130.05
400	67.01	65.99	64.38	62.05	58.93	55.06	0	129.95
500	68.24	66.65	64.67	62.03	58.81	54.62	0	130.42
630	67.72	65.69	63.36	60.26	56.54	52.18	0	130.53
800	67.41	65.58	63.12	60	56.11	51.25	0	130.84
1000	66.51	64.66	62.26	59.14	55.01	49.5	0	130.52
1300	65.91	63.98	61.32	57.81	53.21	47.12	0	130.25
1600	64.86	62.85	60.12	56.54	51.63	44.79	0	129.85
2000	63.88	61.41	58.51	54.79	49.67	42.42	0	129.11
2500	62.31	60.01	56.97	53.12	47.59	39.32	0	127.94
3200	59.86	57.51	54.51	50.83	44.81	35.61	0	126.09
4000	55.66	52.92	49.61	45.5	39.06	28.79	0	122.8
5000	49.17	45.92	41.96	36.93	29.21	12.34	0	117.85
6300	36.97	35.96	30.92	23.63	-2.67	0	0	110.94
8000	26.89	20.17	0	0	0	0	0	101.37
10000	0	0	0	0	0	0	0	85.15
OASPL	79.3	78.91	78.37	77.45	75.78	72.95	0	142.54
PNL	87.11	85.47	83.26	80.43	77.06	72.59	0	88.58

NASA Lewis Allison AST Jet Noise Test 1996

rdg	471
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mxbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1018.22
m01	0.00443
pamb	14.1557
tamb	501.413
rhumid	82.13
winds1	0
nprc	1.743
nprb	1.824
ptc	24.6734
ptb	25.82
wactc	3.567
wactb	17.656
ttc	1390.47
ttb	497.485
ptmix	25.8273
ttmix	647.571
mixpnd	0.81612
grsvisp	21809.7
badchan	(26)
bkgnd	457
escdate	05.Dec.96
esctime	21:01:28
DADSdate	05.Dec.96
DADStime	21:01:28
btchdate	05.Dec.96
btchtime	21:01:28

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 06:00:16 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.49	81.69	82.45	82.85	83	83	82.95	82.95	83.09	83.48	84.22	85.38	86.84	88.57	90.47	92.45	94.43	96.32	98.04	99.5	100.83	101.33	0	134.93
100	81.69	82.18	82.39	82.53	82.81	83.38	84.1	84.6	84.89	84.74	85.18	86.12	87.58	89.42	91.57	93.91	96.34	98.67	100.62	101.92	102.26	101.37	0	136.6
130	83.75	84.34	84.51	84.37	84.04	83.64	83.28	83.08	83.13	83.55	84.45	85.88	87.71	89.85	92.17	94.5	96.72	98.67	100.18	101.09	101.24	100.44	0	136.21
160	84.26	84.8	85.21	85.56	85.91	86.28	86.89	87.11	87.52	88.01	88.68	89.55	90.63	91.91	93.39	95.04	96.88	98.78	100.5	101.77	102.3	101.77	0	137.16
200	85.06	85.48	85.74	85.97	86.29	86.75	87.17	87.28	87.42	87.98	88.75	89.53	90.37	91.41	92.75	94.38	96.27	98.2	99.55	99.75	99.1	98.67	0	135.87
250	84.8	85.54	86.07	86.46	86.8	87.14	87.5	87.89	88.34	88.91	89.68	90.66	91.89	93.3	94.81	96.27	97.76	98.93	99.16	98.48	97.21	95.94	0	136.13
320	85.88	86.76	87.28	87.55	87.65	87.73	87.93	88.26	88.66	89.27	90.21	91.51	92.92	94.13	95.21	96.46	97.54	98.08	97.82	96.61	95.03	94.32	0	135.81
400	84.99	85.93	86.73	87.43	88.06	88.64	89.2	89.78	90.38	91.04	91.78	92.71	93.97	95.06	96.03	97.09	97.33	96.88	96.35	95.23	93.73	92.49	0	135.91
500	85.99	86.99	87.72	88.27	88.74	89.22	89.71	90.25	90.82	91.45	92.13	92.81	93.89	95.1	96.04	96.77	97.56	97.42	96.71	95.39	94.01	92.58	0	136.12
630	86.07	87.3	88.2	88.89	89.47	90.05	90.62	91.14	91.61	92.14	92.93	93.87	94.98	95.98	96.67	97.14	97.24	96.81	95.9	94.63	93.11	91.4	0	136.42
800	87.98	88.09	89.62	89.87	90.1	90.49	91.02	91.87	92.39	93.17	93.96	94.78	95.63	96.67	97.69	98.06	97.77	96.93	95.8	94.48	93.03	91.8	0	137.08
1000	88.36	89.64	90.28	90.58	90.83	91.28	91.9	92.5	93.21	94.01	94.86	95.78	96.72	97.4	97.64	97.73	97.69	97.11	96.05	94.62	93.03	91.5	0	137.53
1300	88.97	90.45	90.89	91.21	91.44	91.88	92.32	92.88	93.55	94.23	95.05	96.08	97.02	97.71	98.03	97.93	97.85	96.95	95.82	94.26	92.45	90.66	0	137.75
1600	88.97	90.47	91.06	91.38	91.82	92.46	92.99	93.55	94.07	94.78	95.51	96.51	97.53	98.19	98	97.5	97.5	97.13	96.12	94.53	92.63	90.73	0	138.01
2000	89.16	90.67	91.11	91.49	91.98	92.57	93.15	93.8	94.39	94.89	95.68	96.66	97.84	98.5	98.32	97.87	97.47	96.79	95.78	94.54	92.95	90.76	0	138.18
2500	88.51	90.19	90.87	91.36	91.79	92.42	93.28	93.93	94.4	94.83	95.64	96.77	97.82	98.55	98.22	97.73	97.73	97.43	96.6	95.4	93.52	91.12	0	138.27
3200	87.88	89.39	90.29	91.05	91.55	92.03	92.86	93.47	93.95	94.63	95.85	96.75	97.87	98.18	98.14	97.9	97.82	97.42	96.83	96.18	94.7	92.38	0	138.18
4000	86.97	88.73	89.42	90.14	90.75	91.51	92.22	92.79	93.45	94.27	95.29	96.3	96.88	97.12	97.12	97.01	97.23	96.93	96.69	96.75	95.37	93.25	0	137.62
5000	85.82	87.64	88.41	88.83	89.23	90.13	91.37	92.11	92.61	93.23	94.39	95.38	95.76	95.93	95.75	95.33	95.41	95.14	94.99	94.72	93.37	91.5	0	136.3
6300	84.27	86.36	87.16	87.86	88.12	88.92	90.08	91.03	91.88	92.35	93.23	94.24	94.91	94.76	94.36	94.08	93.8	93.5	93.59	92.87	91.15	89.56	0	135.05
8000	83.11	85.09	85.93	86.54	87.05	87.86	89.29	90.28	90.84	91.53	92.73	93.78	94.16	93.84	93.32	93.2	93.13	92.16	91.83	90.78	89.06	87.69	0	134.11
10000	80.07	81.5	82.39	83.51	84.53	85.49	86.42	87.44	88.05	88.37	89.69	90.37	91.15	91.37	91.35	91.04	90.22	88.86	88.08	87.56	85.52	83.33	0	131.24
OASPL	99.7	101.08	101.68	102.13	102.54	103.08	103.75	104.38	104.91	105.54	106.42	107.4	108.33	109.03	109.38	109.71	110.17	110.47	110.68	110.65	110.21	109.4	0	150.05

NASA Lewis Allison AST Jet Noise Test 1996

rdg 471
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nalrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vd 1018.22
m01 0.00443
pamb 14.1557
tamb 501.413
rhumid 82.13
winds1 0
nprc 1.743
nprb 1.824
ptc 24.6734
ptb 25.82
wactc 3.567
wactb 17.858
ttc 1390.47
ttb 497.485
ptmix 25.6273
ttmix 647.571
mixpnd 0.81612
grsvisp 21609.7
badchan (26)
bkgnd 457
eacdate 05.Dec.96
eactime 21:01:28
DADSdate 05.Dec.96
DADStime 21:01:28
blchdate 05.Dec.96
blchtime 21:01:28
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 08:00:21 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500
yaw angle	55	60	65	70	75	80	85	90
roll angle (	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90
80	58.7	60.4	61.56	62.27	62.66	62.83	62.88	62.9
100	59.87	60.84	61.45	61.92	62.44	63.17	63.99	64.53
130	61.87	62.96	63.53	63.71	63.62	63.39	63.13	62.96
160	62.31	63.34	64.15	64.83	65.41	65.96	66.47	66.93
200	62.97	63.9	64.57	65.13	65.7	66.34	66.85	67
250	62.55	63.8	64.74	65.47	66.06	66.58	67.04	67.47
320	63.38	64.76	65.74	66.35	66.71	66.97	67.28	67.64
400	62.14	63.62	64.87	65.92	66.61	67.58	68.26	68.87
500	62.68	64.27	65.47	66.39	67.14	67.8	68.41	68.98
630	62.26	64.1	65.49	66.56	67.44	68.22	68.92	69.49
800	63.61	65.35	66.4	67.08	67.61	68.21	68.87	69.56
1000	63.43	65.36	66.56	67.29	67.87	68.52	69.3	69.93
1300	63.44	65.63	66.65	67.41	67.97	68.64	69.22	69.83
1600	62.75	65	66.19	66.97	67.76	68.66	69.34	69.94
2000	62.05	64.36	65.45	66.34	67.2	68.05	68.79	69.49
2500	60.23	62.77	64.14	65.18	66.01	66.92	67.93	68.65
3200	57.59	60.26	61.84	63.31	64.27	65.06	66.08	66.74
4000	54.15	56.99	58.59	60.06	61.22	62.31	63.21	63.86
5000	48.58	52	53.86	55.12	56.14	57.46	58.97	59.78
6300	40.59	44.4	46.59	48.16	49.46	50.8	52.22	53.28
8000	29.37	33.79	36.45	38.47	39.96	41.41	43.26	44.48
10000	0	9.02	17.03	21.46	24.47	26.64	28.4	29.7
OASPL	74.51	76.22	77.3	78.1	78.76	79.43	80.07	80.63
PNL	83.88	86.13	87.44	88.43	89.23	90.06	90.83	91.59

distance: (	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1858.11	2121.32
yaw angle	95	100	105	110	115	120	125	130	135
roll angle (	0	0	0	0	0	0	0	0	0
frequency	95	100	105	110	115	120	125	130	135
80	63.01	63.3	63.67	64.77	65.94	67.27	68.68	70.06	71.36
100	64.59	64.54	64.78	65.51	66.64	68.09	69.75	71.5	73.23
130	62.98	63.31	64.03	65.2	66.73	68.47	70.29	72.04	73.54
160	67.31	67.7	68.19	68.82	69.57	70.45	71.43	72.49	73.6
200	67.11	67.57	68.17	68.69	69.21	69.84	70.67	71.69	72.86
250	67.88	68.34	68.92	69.67	70.56	71.55	72.55	73.39	74.13
320	68.01	68.52	69.27	70.32	71.39	72.17	72.71	73.32	73.63
400	69.44	69.99	70.54	71.2	72.1	72.74	73.16	73.55	72.98
500	69.51	70.02	70.51	70.92	71.44	72.38	72.75	72.78	72.72
630	69.91	70.32	70.91	71.56	72.29	72.78	72.87	72.58	71.78
800	70.25	70.9	71.48	71.87	72.43	72.95	73.34	72.94	71.68
1000	70.6	71.27	71.89	72.46	73.01	73.15	72.72	71.99	70.94
1300	70.45	71	71.58	72.27	72.77	72.88	72.51	71.53	70.19
1600	70.42	70.99	71.47	72.11	72.68	72.72	71.78	70.38	69.24
2000	70.03	70.37	70.8	71.51	72.19	72.21	71.22	69.8	68.18
2500	69.07	69.34	69.85	70.56	71.08	71.12	69.92	68.36	67.02
3200	67.15	67.64	68.33	69.01	69.34	69.08	68.04	66.58	64.97
4000	64.47	65.05	65.7	66.19	66.08	65.48	64.35	62.81	61.24
5000	60.19	60.57	61.32	61.89	61.19	60.24	58.7	58.82	54.52
6300	53.83	54.22	54.56	54.78	54.34	52.83	50.75	48.28	45.2
8000	44.93	45.15	45.61	45.67	44.66	42.48	39.61	36.59	32.78
10000	30.16	29.88	30.25	29.76	28.44	25.7	21.5	15.04	0
OASPL	81.11	81.59	82.16	82.8	83.45	83.91	84.06	84.15	84.22
PNL	92.04	92.44	93	93.88	94.18	94.31	93.72	92.87	92.04

distance: (	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	
frequency	140	145	150	155	160	165	PWL
80	72.41	73.13	73.39	73.04	71.89	0	134.85
100	74.71	75.66	75.75	74.6	71.83	0	136.46
130	74.64	75.14	74.83	73.47	70.76	0	135.99
160	74.65	75.35	75.38	74.37	71.9	0	136.82
200	73.81	74.22	73.14	70.92	68.5	0	135.39
250	74.4	73.59	71.58	68.68	65.31	0	135.46
320	73.24	71.88	69.32	66.03	63.11	0	134.91
400	71.57	69.87	67.33	64.02	60.37	0	134.66
500	71.55	69.58	66.71	63.37	59.32	0	134.4
630	70.26	68.01	65.09	61.43	56.87	0	134.24
800	69.68	67.13	64.02	60.25	55.69	0	134.38
1000	69.15	66.57	63.23	59.14	54.22	0	134.31
1300	68.19	65.43	61.83	57.34	51.84	0	133.96
1600	67.47	64.72	60.92	56.1	50.14	0	133.61
2000	66	63.12	59.47	54.69	47.99	0	132.96
2500	65.05	62.11	58.2	52.71	45.24	0	131.85
3200	62.69	59.73	55.97	50.31	41.99	0	129.99
4000	58.74	55.68	51.97	45.63	36.31	0	126.8
5000	51.58	47.89	43.06	35.57	24.28	0	121.84
6300	41.42	36.96	30.24	19.03	0	0	114.8
8000	27.09	19.21	0	0	0	0	106.3
10000	0	0	0	0	0	0	89.58
OASPL	84.11	83.72	82.8	81.2	78.89	0	147
PNL	90.67	88.61	86.34	83.56	79.65	0	92.95

NASA Lewis Allison AST Jet Noise Test 1998

rdg	474
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
nalrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	SH25
anoz	41.226
ambxc	35.02
ambxb	78.39
scale	4
vid	828.8
m01	0.1999
pamb	14.1168
tamb	497.835
rhumid	87.5
winds1	0
nprc	1.398
nprb	1.443
ptc	19.7071
ptb	20.3705
wactc	2.904
wactb	12.88
ttc	1176.59
ttb	502.801
ptmix	20.2485
ttmix	626.604
mixgnd	0.675319
grsvbp	13081.8
badchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	21:41:09
DADSdate	97.06.18
DADStime	21:41:09
blchdate	05 Dec 96
blchtime	21:41:09

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:42:58 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance (ft)	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (deg)	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	64.17	65.84	67.11	67.98	68.42	68.47	68.33	68.22	68.28	68.66	69.46	70.34
100	66.27	67.5	69.92	70.38	69.89	70.34	71.13	71.57	71.47	71.23	71.23	71.66
130	69.48	69.58	69.38	69.6	69.91	70.07	70.11	70.05	69.99	70.09	70.44	71.06
160	69.71	70.71	71.4	72.13	72.55	72.57	72.53	72.69	72.46	72.04	72.66	73.36
200	72.15	72.71	73.03	73.34	73.56	73.84	73.75	73.82	74.55	74.49	74.81	75.35
250	73.91	75.49	76.51	76.67	76.31	76.06	76.22	76.48	76.99	77.41	77.95	76.41
320	75.27	76.89	77.53	77.53	77.29	77.13	77.16	77.33	77.54	77.61	77.4	77.4
400	76.38	78.32	78.99	78.73	78.25	78.38	79.2	79.53	79.92	80.25	80.62	81
500	76.85	79.78	79.96	79.75	79.86	80.13	79.96	79.85	80.06	80.44	80.8	81.11
630	77.13	80.95	80.85	80.73	80.82	80.8	80.92	81.22	81.56	81.81	82.09	82.38
800	79.45	82.13	81.57	81.54	82.09	82.47	82.75	83.04	83.29	83.45	83.52	83.48
1000	79.95	82.63	82.29	82.25	82.5	82.78	83.03	83.33	83.67	84.02	84.33	84.54
1300	81	82.95	82.73	83.15	83.49	83.57	83.62	83.66	84.23	84.53	84.58	84.49
1600	80.8	82.66	82.79	82.99	83.28	83.52	83.85	84.23	84.53	84.71	84.91	85.06
2000	81.42	82.64	82.87	83.17	83.53	83.95	84.14	84.09	84.27	84.77	85.16	85.48
2500	81.11	82.53	83.12	83.29	83.43	83.56	83.93	84.04	84.31	84.58	84.76	84.99
3200	81.18	82.35	82.75	83.24	83.5	83.29	83.83	83.82	83.95	84.26	84.44	84.7
4000	79.79	81.56	82.2	82.45	82.43	82.56	83.13	82.97	83.2	83.85	83.86	83.89
5000	78.41	80.26	80.93	81.07	80.76	81.05	81.98	81.9	82.04	82.39	82.84	82.66
6300	77.03	78.87	79.41	79.66	79.48	79.55	80.7	80.79	80.97	81.44	81.47	81.46
8000	75.66	77.4	78.07	78.3	78.01	78.24	79.96	79.74	79.73	80.16	80.58	80.77
10000	72.99	73.89	74.39	74.97	75.35	75.86	76.9	76.84	76.85	77.06	77.45	76.8
OASPL	91.29	93.2	93.44	93.61	93.74	93.92	94.31	94.42	94.69	95	95.23	95.36

distance (ft)	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (deg)	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.96	73.07	73.65	73.43	73.9	74.61	75.92	77.1	78.3	79.62	81.41	115.28
100	72.43	73.24	73.9	74.43	74.98	75.61	76.41	77.28	78.16	79.15	80.56	116.15
130	71.8	72.77	73.6	74.22	75.25	77.03	76.51	79.41	79.9	80.23	80.78	116.63
160	73.75	74.24	75.13	75.52	76.37	78.05	78.1	77.92	78.26	78.39	78.21	117.31
200	75.87	76.39	76.95	77.45	77.84	78.2	78.6	78.95	79.09	78.83	78.06	118.68
250	76.56	79.8	80.5	80.54	80.34	80.13	79.89	79.76	79.52	78.9	77.62	121.13
320	78.6	79.53	79.73	79.75	80.06	80.61	80.44	79.92	79.35	78.42	76.8	121.27
400	81.18	81.37	81.72	81.93	81.93	81.61	81.35	80.36	78.84	76.99	75.31	123.08
500	81.54	82.22	83.01	83.49	83.49	83.22	82.71	81.67	80.15	78.61	76.89	124.03
630	82.53	82.47	82.64	82.88	82.91	82.67	82.2	81.46	80.26	78.51	76.59	124.55
800	83.48	83.83	84.01	83.7	83.44	83.52	83.05	81.66	80.3	78.75	77.05	125.76
1000	84.57	84.45	84.14	83.71	83.25	82.62	82.26	81.29	79.91	78.28	76.69	126.14
1300	84.69	84.68	84.75	84.12	83.11	82.52	81.92	80.82	79.22	77.81	76.43	126.5
1600	85.12	85.04	85.06	84.56	83.46	82.55	81.82	80.68	79.13	77.5	76.28	126.7
2000	85.51	85.4	85.65	84.82	83.16	82.17	81.5	80.45	78.98	77.64	76.75	126.88
2500	85.03	85.14	85.29	84.55	83.26	82.34	81.72	80.47	78.66	77.42	76.86	126.69
3200	84.56	84.71	84.79	84.13	83.04	82.26	81.76	80.62	78.89	77.53	76.67	126.39
4000	83.79	83.32	83.42	83.02	82.04	81.38	80.56	79.23	77.65	76.56	76.21	125.54
5000	82.36	81.91	81.78	81.34	80.51	79.73	78.77	77.3	75.71	74.73	74.54	124.16
6300	81.22	80.62	80.47	79.89	78.47	77.71	76.95	75.53	73.82	72.78	72.5	122.84
8000	80.03	79.1	78.61	77.9	76.94	76.17	75.29	73.82	71.64	70.46	70.25	121.59
10000	76.23	75.8	75.69	75.22	74.03	72.76	71.63	69.86	67.42	65.82	65.69	118.41
OASPL	95.42	95.44	95.59	95.23	94.59	94.22	93.79	92.89	91.99	91.14	90.67	137.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	474
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	626.8
m01	0.1999
pamb	14.1168
tamb	497.635
rhumid	87.5
winde1	0
nprc	1.396
nprb	1.443
ptc	19.7071
ptb	20.3705
wactc	2.904
wactb	12.88
ttc	1178.59
ttb	502.601
ptmix	20.2485
ttmix	826.604
mixpnd	0.675319
grsvixp	13081.8
badchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	21:41:09
DADSdate	97.08.18
DADStime	21:41:09
btchdate	05.Dec.96
btchtime	21:41:09

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 11:43:08 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	41.32	45.91	48.39	48.63	47.44	47.43	51.4	48.17	46.41	49.83	49.81	49.88
100	44.58	46.12	48.91	49.06	49.18	48.65	50.25	51.5	50.48	49.26	48.56	50.59
130	47.9	47.92	48.33	50.98	51.34	51.03	52.43	49.93	49.87	50.99	50.74	50.74
160	48.57	50.96	51.24	51.57	53.21	52.98	53.62	52.51	51.81	52.66	52.81	52.99
200	50.86	51.9	53.77	53.96	55.02	54.82	55.94	53.55	53.81	54.35	54.24	55.42
250	52.87	54.97	56.77	57.4	57.07	57.01	56.93	56.05	57.39	57.41	58.17	58.05
320	53.13	55.14	56.17	56.19	56.53	57.17	57.94	56.72	56.73	56.76	55.81	56.06
400	53.18	56.71	57.81	57.9	57.97	58.43	58.62	58.82	58.12	59.41	59.73	59.82
500	52.73	56.84	57.46	58.27	58.79	58.93	59.03	58.58	58.77	59.18	59.38	59.25
630	54.27	57.85	58.01	58.02	58.99	59.72	60.43	59.55	59.97	60.48	60.69	60.68
800	54.83	58.52	58.42	58.91	59.61	60.12	60.49	60.93	61.33	61.15	61.05	60.93
1000	55.12	57.91	58.25	58.98	59.65	60.06	60.39	60.78	60.98	61.17	61.19	60.91
1300	54.37	57.19	57.67	58.65	59.44	59.81	60.09	60.81	61.17	61.41	61.4	61.06
1600	54.14	56.65	57.4	57.84	58.44	59.28	59.83	60.61	60.89	60.98	60.96	60.8
2000	52.93	55.03	56.33	57.09	57.7	58.19	58.56	59.78	59.93	60.22	60.41	60.28
2500	51.12	53.17	54.47	56.45	56.06	56.34	56.84	58.75	58.99	59.11	58.99	58.72
3200	47.63	50.24	51.64	52.62	53.12	53.53	54.19	56.88	57.1	57.18	57.07	56.8
4000	42.03	45	46.88	47.73	47.85	48.55	49.61	54.06	54.15	54.4	54.17	53.63
5000	33.68	37.28	39.08	40.35	40.98	41.62	43.01	49.55	49.52	49.47	49.31	48.6
6300	21.07	26.1	28.69	30.26	31.04	31.95	33.96	43.12	43.18	43.27	42.81	42.1
8000	0	0	0	0	-2.83	9.55	15.39	33.99	33.82	33.82	33.5	32.47
10000	0	0	0	0	0	0	0	15.37	15.43	14.88	12.18	-2.4
OASPL	64.64	67.49	68.25	68.8	69.36	69.75	70.24	70.52	70.8	71.01	71.04	70.95
PNL	75.19	77.7	78.82	79.54	80.12	80.55	81.09	81.32	81.53	81.72	81.64	81.45

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.96	50.29	50.39	52.59	52.12	51.74	51.28	50.8	50.06	49.04	47.8	115.24
100	51.24	51.44	50.91	49.88	51.95	52.96	53.54	53.2	52.09	50.39	48.27	116.26
130	51.02	52.62	52.58	52.68	52.77	52.73	53.46	52.39	51.2	49.23	46.4	116.57
160	54.06	53.83	53.84	53.49	54.3	54.07	53.01	51.99	50.73	49.45	45.93	117.68
200	55.04	55	56.74	56.75	55.58	55.33	54.11	52.84	51.01	49.07	45.23	119.26
250	56.99	59.27	59.02	57.91	57.61	56.54	54.97	53.51	51.15	47.97	43.5	121.49
320	56.51	56.54	57.01	56.49	56.35	55.61	55.02	52.84	49.97	48.35	41.54	120.46
400	59.48	59.58	59.67	59.63	58.51	57.6	55.57	53.33	49.94	45.6	40.71	122.55
500	59.35	59.48	59.52	59.02	58.18	56.57	55.09	52.8	49.48	45.27	39.67	122.37
630	60.24	60.06	59.74	58.91	57.91	57	55.08	52.05	48.6	44.23	38.5	122.99
800	60.61	60.17	59.41	58.47	57.4	55.98	54.1	51.45	47.62	42.87	36.43	123.26
1000	60.67	60.23	59.53	58.15	56.12	54.58	52.54	49.51	45.45	40.25	33.81	123.05
1300	60.76	60.19	59.6	58.25	56.12	53.67	51.3	48.21	44.12	38.86	32.07	122.95
1600	60.4	59.73	59.11	57.44	54.98	52.7	50.27	46.95	42.58	37.13	29.99	122.45
2000	59.81	59.12	58.5	56.66	54.02	51.61	49.12	45.48	40.37	34.63	27.21	121.63
2500	58.17	57.63	56.86	55.06	52.5	50.03	47.48	43.69	38.4	31.87	23.28	120.15
3200	55.99	55.17	54.34	52.62	49.98	47.36	44.23	39.81	33.95	28.84	11.95	117.85
4000	52.79	51.19	49.82	48.2	45.62	42.5	38.72	33.6	26.96	16.09	0	114.2
5000	47.37	45.81	44.39	41.97	38.57	35.02	30.58	24.1	6.72	0	0	108.84
6300	40.6	38.59	36.32	33.42	29.62	24.81	16.68	0	0	0	0	101.91
8000	30.12	27.22	23.86	18.67	3.73	0	0	0	0	0	0	91.85
10000	0	0	0	0	0	0	0	0	0	0	0	72.01
OASPL	70.74	70.44	70.12	69.22	68.05	66.9	65.47	63.52	61.09	58.4	55.03	133.42
PNL	81.01	80.48	79.87	78.42	76.43	74.45	72.21	69.01	65.18	60.64	54.59	81.34

NASA Lewis Allison AST Jet Noise Test 1998

rdg	473
run	1
test_prog	Allison98
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	960.82
m01	0.2005
pamb	14.1175
tamb	498.467
rhumid	86.52
winds1	0
nprc	1.547
nprb	1.612
ptc	21.8398
ptb	22.7574
wactc	3.176
wactb	15.19
ttc	1317.03
ttb	502.491
ptmix	22.5887
ttmix	843.348
mixpnd	0.772475
grevbp	17642.7
badchan	[26]
bkgnd	458
eacdate	05 Dec 98
eactime	21:31:35
DADSdate	05 Dec 98
DADStime	21:31:35
bichdate	05 Dec 98
bichtime	21:31:35

**Scenario: 150 foot arc, 77F, 70%; Full scale, Third-octave SPL

Processing date Wed Aug 20 08:03:19 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency (	55	60	65	70	75	80	85	90	95	100	105	110
80	70.62	71.77	72.53	73.03	73.35	73.58	73.78	73.94	74.17	74.47	74.87	75.38
100	71.88	72.75	73.28	73.59	73.78	73.88	73.94	74.04	74.21	74.46	74.84	75.35
130	72.7	73.34	73.89	73.86	73.91	73.93	73.98	74.05	74.23	74.52	74.96	75.53
160	74.17	74.81	75.28	75.64	75.95	76.23	76.52	76.82	77.18	77.54	77.98	78.44
200	75.32	76.88	77.92	78.52	78.73	78.86	78.48	78.41	78.54	78.84	79.27	79.78
250	77.65	78.83	79.41	78.64	79.71	79.77	79.98	80.49	81.01	81.2	81.43	81.86
320	78.42	79.73	80.42	80.67	80.67	80.59	80.54	80.61	80.9	81.29	81.57	82.15
400	80.01	81.2	81.54	81.58	81.64	81.88	82.28	82.69	83.08	83.43	83.77	84.1
500	81	82.62	83.45	83.77	83.79	83.7	83.61	83.8	83.73	84.05	84.58	85.24
630	81.24	83.32	83.9	84.22	84.43	84.57	84.78	84.93	85.07	85.28	85.69	86.28
800	83.2	84.96	85.42	85.46	85.54	85.63	86.26	86.73	87.09	87.32	87.54	87.81
1000	84.57	85.89	86.08	86.02	85.91	86.12	86.56	87.09	87.59	87.98	88.22	88.39
1300	84.74	85.71	85.79	86.15	86.65	87.17	87.61	87.88	88.15	88.49	88.68	88.96
1600	84.95	86.21	86.55	86.92	87.1	87.31	87.77	88.38	88.84	89.02	89.18	89.41
2000	85.38	86.48	86.8	87.04	87.33	87.59	88.01	88.48	88.88	89.22	89.51	89.78
2500	85.01	86.4	86.98	87.27	87.53	87.8	88.17	88.64	89.14	89.3	89.45	89.67
3200	84.57	85.71	86.43	87.07	87.43	87.38	87.87	88.26	88.57	88.78	89	89.5
4000	83.71	85.32	85.92	86.51	86.71	86.87	87.39	87.4	87.69	88.19	88.53	88.92
5000	82.21	84.16	84.81	85.04	85.15	85.45	86.08	86.28	86.53	86.86	87.25	87.59
6300	80.98	82.81	83.84	84.17	84.17	84.14	84.87	85.17	85.6	85.91	85.81	85.89
8000	79.78	81.75	82.57	83.1	83.16	83.02	83.72	83.89	84.41	84.72	85.04	85.24
10000	77.18	78.46	78.28	80.23	80.79	80.82	80.74	80.85	81.17	81.45	81.86	81.1
OASPL	95.21	96.62	97.12	97.46	97.65	97.83	98.24	98.58	98.94	99.24	99.48	98.8

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency (	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76	76.73	77.55	78.45	79.45	80.52	81.87	82.85	84.07	85.45	87.39	120.68
100	76.02	76.84	77.82	78.95	80.22	81.65	83.21	84.76	86.21	87.59	89.14	121.86
130	76.25	77.11	78.08	79.17	80.37	81.87	83.05	84.38	85.49	86.5	87.6	121.56
160	79	79.68	80.46	81.37	82.39	83.52	84.75	85.84	86.59	86.94	86.97	123.28
200	80.28	80.76	81.25	82.19	83.22	83.65	84.34	85.19	85.85	86.08	85.8	123.65
250	82.49	83.29	84.24	85.02	85.51	85.91	86.3	86.38	86.24	86.1	85.42	125.87
320	82.9	83.64	84.29	84.99	85.6	85.89	86.02	85.9	85.38	84.42	82.97	125.72
400	84.43	84.82	85.26	85.59	85.9	86.23	86.33	86.01	85.19	83.87	82.03	126.76
500	85.77	86.28	86.75	87.06	87.15	87.09	86.91	86.45	85.56	84.15	82.17	127.93
630	86.85	87.36	87.75	87.75	87.34	86.76	86.12	85.46	84.69	83.68	82.3	128.57
800	88.08	88.32	88.48	88.45	88.13	87.61	86.86	85.9	84.88	83.31	81.86	129.8
1000	88.73	88.86	88.93	88.77	88.27	87.82	86.9	86.07	84.98	83.42	81.98	130.26
1300	89.28	89.58	89.71	89.45	88.77	87.85	86.96	85.98	84.77	83.62	82.57	130.76
1600	89.61	90	90.12	89.58	88.65	87.77	86.96	85.95	84.7	83.39	82.28	131.14
2000	89.99	90.09	90.04	89.37	88.31	87.46	86.74	85.69	84.34	83.18	82.38	131.25
2500	90.04	90.24	90.45	89.72	88.56	87.97	87.31	85.98	84.41	83.61	83.31	131.42
3200	89.86	89.86	90.17	89.63	88.6	87.85	87.38	86.14	84.6	83.78	83.59	131.14
4000	88.84	88.51	88.42	88.13	87.41	86.76	86.32	85.13	83.52	82.86	83	130.28
5000	87.63	87.18	86.83	86.28	85.8	85.14	84.69	83.35	81.72	81.33	81.68	128.86
6300	86.06	85.7	85.46	84.78	83.7	82.9	82.25	81.21	80.06	79.58	79.3	127.49
8000	84.83	84.08	83.31	82.58	81.85	81.15	80.45	79.05	77.54	77.33	77.81	126.21
10000	80.7	80.37	80.24	79.85	78.79	77.47	76.45	74.89	73.14	72.58	72.94	122.95
OASPL	100.06	100.2	100.34	100.11	99.62	99.24	98.95	98.48	97.93	97.59	97.51	141.75

NASA Lewis Allison AST Jet Noise Test 1996

rdg	473
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	960.62
m01	0.2006
pamb	14.1175
tamb	498.467
rhumid	86.52
winds1	0
nprc	1.547
nprb	1.612
ptc	21.8398
ptb	22.7574
wactc	3.178
wactb	15.19
ttc	1317.03
ttb	502.491
ptmix	22.5987
ttmix	643.348
mixpnd	0.772475
gravtxp	17642.7
badchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	21:31:35
DADSdate	05.Dec.96
DADStime	21:31:35
bichdate	05.Dec.96
bichtime	21:31:35

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 08:03:26 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.39	52.39	52.29	51.97	51.78	51.58	54.25	53.9	52.29	54.86	54.63	54.65	54.88	55.22	55.63	58.08	57.94	57.87	57.72	57.53	57.08	56.26	55.21	121.11
100	49.22	50.22	53.1	53.49	53.62	52.77	54.11	53.97	53.32	52.72	52.43	54.71	54.89	54.87	54.76	54.66	57.32	57.7	58.03	58.14	57.87	57.18	56.05	121.17
130	52.28	52.73	52.97	54.84	55.02	54.81	56.45	53.93	53.9	55.93	55.77	55.65	55.72	57.75	57.81	57.83	57.77	57.68	59.72	59.54	58.84	57.38	55.11	122.38
160	52.03	54.63	55.51	56.04	57.84	57.77	58.36	56.64	56.51	57.77	57.78	57.77	58.76	58.48	58.44	58.44	58.81	59.21	58.53	58.13	58.31	56.53	53.39	122.99
200	54.32	55.91	57.63	57.88	58.82	58.79	59.71	58.13	57.75	58.26	58.33	59.22	59.19	59.31	60.1	60.09	58.78	60.46	59.75	58.76	57.13	56.01	52.83	123.77
250	56.12	57.65	59.19	60.03	59.93	60.14	60.24	60.05	61.55	61.3	61.89	61.84	62.65	62.8	63.26	62.97	62.96	61.8	60.56	59.59	57.49	54.33	49.9	125.75
320	56.88	58.23	58.97	59.58	60.13	60.67	60.93	59.99	60.09	60.58	60.19	61	61.34	61.23	61.6	61.53	61.57	60.88	60.34	58.61	56.18	53.08	48.19	124.68
400	58.89	59.33	60.79	61.52	61.9	62.07	62.27	61.77	62.26	62.55	62.83	62.92	62.84	63.17	63.22	63.15	62.37	61.77	60.16	58.41	55.55	51.79	46.48	126.18
500	58.89	59.15	60.39	61.53	62.05	62.52	62.63	62.33	62.49	62.8	63.22	63.67	63.95	64.08	64.11	63.58	62.49	60.71	59.04	58.98	54.23	50.56	45.3	126.38
630	57.96	60.65	61.8	62.16	62.72	63.21	63.98	63.26	63.38	63.81	64.26	64.72	64.91	64.88	64.22	63.26	62.11	60.7	58.7	58.02	53	48.79	43.46	126.93
800	59.23	61.6	62.48	62.87	63.09	63.51	64.01	64.62	65.02	64.95	65	65.1	64.86	64.58	64.22	63.47	62.28	60.58	58.49	55.85	52.21	47.49	41.39	127.34
1000	59.07	60.86	61.49	62.01	62.69	63.41	64.32	64.53	64.97	65.27	65.24	65.07	65.11	64.78	64.34	63.48	61.83	59.84	57.44	54.53	50.84	46.26	40.05	127.2
1300	58.3	60.43	61.46	62.39	63.08	63.58	64.05	64.82	65.02	65.2	65.21	65.23	65.17	64.89	64.39	63.22	61.41	58.97	56.46	53.48	49.58	44.6	37.9	127.15
1600	58.05	59.88	60.84	61.87	62.64	63.09	63.61	64.76	65.28	65.34	65.35	65.26	64.97	64.73	63.95	62.42	60.23	58	55.48	52.21	48.03	42.71	35.61	126.86
2000	57.02	59.22	60.32	61.09	61.64	62.3	62.86	64.17	64.58	64.73	64.65	64.59	64.37	63.88	63.21	61.5	59.26	57.18	54.62	50.99	46.23	40.96	33.75	126.12
2500	54.46	56.77	58.17	59.18	60.09	60.42	61.09	63.39	63.8	63.81	63.64	63.59	63.42	62.91	62.19	60.43	57.98	55.66	53.07	49.11	43.95	37.98	29.9	124.91
3200	51.39	53.85	55.24	56.72	57.34	57.73	58.45	61.55	61.71	61.71	61.72	61.71	61.47	60.5	59.59	57.98	55.5	52.83	49.82	45.61	39.88	33.22	23.88	122.63
4000	45.91	49.03	50.56	51.59	52.36	52.98	53.72	58.49	58.61	58.92	58.84	58.57	57.78	56.44	54.95	53.03	50.63	47.82	44.7	39.69	32.61	25.01	0	118.88
5000	37.51	41.05	43.1	44.52	45.37	46.08	47.17	53.98	54.06	54.13	53.87	53.53	52.59	51.02	49.37	47.05	43.91	40.39	36.32	30.61	22.15	0	0	113.56
6300	25.95	30.47	33.12	35.12	36.09	36.59	37.75	47.47	47.83	47.76	47.14	46.57	45.54	43.64	41.47	38.44	34.57	30.34	24.79	13.64	0	0	0	106.49
8000	0	0	11.69	17.3	20.06	21.31	22.05	38.2	38.53	38.34	37.91	36.94	35.01	32.35	29.21	25.2	19.39	-1.77	0	0	0	0	0	96.47
10000	0	0	0	0	0	0	0	22.43	22.38	21.61	20.24	16.45	9.62	0	0	0	0	0	0	0	0	0	0	78.83
OASPL	68.57	70.65	71.74	72.47	73.04	73.44	74.02	74.5	74.83	75.04	75.11	75.21	75.21	75.02	74.7	73.95	72.97	71.77	70.53	69.06	67.32	65.22	62.48	137.76
PNL	79.22	81.43	82.61	83.44	84.06	84.55	85.18	85.69	86.01	86.18	86.09	86.1	85.94	85.48	84.87	83.55	81.74	79.81	77.66	74.62	71.23	67.24	62.11	85.96

NASA Lewis Allison AST Jet Noise Test 1996

rdg	472
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mbxbid	TONG
nozbid	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1022.54
m01	0.20006
pamb	14.1173
tamb	499.604
rhumid	84
windel	0
nprc	1.742
nprb	1.821
ptc	24.5923
ptb	25.7076
wactc	3.552
wactb	17.496
ttc	1395.33
ttb	499.402
ptmix	25.5194
ttmix	850.582
mixpnd	0.817683
grewxp	21524.5
badchan	(26)
bkgnd	458
secdate	05.Dec.96
sectime	21.13.01
DADSdate	97.08.18
DADStime	21.13.01
bkchdate	05.Dec.96
bkchtime	21.13.01

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:48:46 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency (	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.28	76.33	76.86	77.42	78.43	78.35	78.43	77.77	78.4	78.5	78.59	78.99	79.67	80.57	81.62	82.78	84.01	85.27	86.54	87.79	89.04	90.47	92.5	125.26
100	77.71	78.71	78.99	78.69	78.67	78.67	79.19	79.7	79.69	79.91	79.91	80.01	80.37	81.11	82.27	83.76	85.5	87.33	89.16	90.68	92.39	93.77	95.26	127.57
130	78.12	79.04	78.98	78.46	77.99	77.84	77.95	78.26	78.69	79.17	79.86	80.17	80.82	81.71	82.81	84.56	86.55	88.56	90.29	91.45	92.14	92.87	94.67	127.69
160	79.4	80.26	80.62	80.74	80.83	81	81.24	81.52	81.81	82.06	82.3	82.52	82.89	83.54	84.53	85.55	86.77	88.5	90.18	91.48	92.42	93.14	93.85	128.41
200	79.55	82.37	82.56	82.36	82.12	81.83	81.73	81.81	81.87	82.19	82.7	83.5	84.24	85.01	85.83	86.54	87.67	89.38	90.77	91.8	91.92	91.85	91.53	128.76
250	80.91	82	82.31	82.27	82.22	82.41	82.79	83.3	83.64	83.76	84.59	85.92	86.17	86.59	88.44	89.76	89.89	90.33	91.41	92.24	92.46	92.36	91.78	129.99
320	83.02	84.65	84.76	84.02	83.78	84.11	84.45	84.81	85.13	85.22	85.36	85.75	86.49	87.37	88.19	89.26	90.22	90.68	91.15	91.46	91.28	90.49	88.93	130.15
400	83.51	84.78	84.85	84.51	84.54	85.17	85.78	86.35	86.89	87.24	87.38	87.43	87.87	88.5	89.46	90.39	91.05	91.37	91.14	90.87	90.1	89.5	88.01	130.88
500	84.13	86.18	86.04	85.88	86.01	86.31	86.66	86.92	87.06	87.19	87.55	88.17	88.76	89.55	90.83	91.4	91.94	92.43	92.13	91.6	90.65	89.19	86.77	131.72
630	84.82	86.97	86.75	86.77	87.42	88.05	88.47	88.69	88.65	88.6	88.93	89.46	90.42	91.15	91.5	91.55	91.56	91.61	91.44	90.87	89.86	88.44	86.6	132.37
800	86.93	88.25	87.93	88.05	88.47	88.8	89.25	89.63	90.02	90.24	90.56	91.21	91.65	91.86	92.13	92.05	91.78	91.59	91.32	90.7	89.6	88.06	86.13	133.19
1000	88.33	89.02	88.79	88.78	88.94	89.48	90.22	90.69	90.86	91.09	91.43	91.8	92.35	92.74	93.01	92.96	92.86	92.38	91.85	90.95	89.51	88.09	86.64	133.87
1300	89.1	89.46	89.36	89.64	89.86	90.26	90.79	91.26	91.57	91.79	92.1	92.61	93.17	93.7	93.76	93.26	92.7	92.36	91.91	90.91	89.34	87.81	86.59	134.53
1600	89.04	89.75	89.95	90.09	90.39	90.8	91.42	91.71	92.1	92.45	92.61	92.94	93.96	94.32	94.12	93.42	92.69	92.32	91.97	90.97	89.35	88.05	87	134.94
2000	89.44	90.17	90.41	90.61	90.8	91.07	91.8	92.35	92.63	92.88	93.15	93.66	93.8	94.27	94.1	93.19	92.5	92.46	92.23	91.02	89.19	87.82	87	135.19
2500	88.9	89.92	90.29	90.45	90.79	91	91.81	92.39	92.68	92.84	93.06	93.83	94.34	94.47	94.19	93.51	92.99	92.75	92.25	91.09	89.59	88.49	87.9	135.3
3200	88.23	89.02	89.63	90.23	90.52	90.7	91.67	92.17	92.56	92.87	93.22	93.76	94	94.14	93.96	93.46	92.9	92.56	92.35	91.59	90.17	88.95	88.19	135.15
4000	87.18	88.28	89.08	89.7	89.67	89.84	91.03	91.38	91.78	91.98	92.39	93.18	93.31	93.14	92.97	92.62	92.26	92.11	91.63	90.89	89.54	88.66	88.32	134.4
5000	85.75	87.23	87.84	88.07	88.08	88.5	89.93	90.32	90.46	90.91	91.33	91.95	91.8	91.49	91.31	90.87	90.44	90.34	89.93	89.11	88.19	87.52	87.06	132.88
6300	84.52	85.83	86.61	87.12	87.06	87.17	88.7	89.18	89.43	89.69	89.91	90.39	90.37	90.05	89.68	88.99	88.36	88.19	87.87	87.11	86.14	85.5	84.92	131.52
8000	83.36	84.79	85.39	85.89	85.9	86.01	87.58	88.12	88.34	88.68	88.88	89.36	89.16	88.49	87.85	87.17	86.73	86.61	85.94	84.9	83.83	83.08	82.37	130.21
10000	81.1	81.69	82.13	82.89	83.41	83.84	84.18	84.7	85.02	85.11	85.61	85.35	85.4	85.11	84.56	84.26	83.94	83.14	82.11	80.76	79.36	78.45	77.89	126.88
OASPL	99.07	100.12	100.38	100.56	100.75	101.06	101.84	102.29	102.56	102.82	103.12	103.66	104.05	104.3	104.36	104.2	104.05	104.16	104.21	103.95	103.5	103.2	103.24	145.75

NASA Lewis Allison AST Jet Noise Test 1996

rdg	472
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vd	1022.54
m01	0.20006
pamb	14.1173
tamb	499.604
rhumid	84
winds1	0
nprc	1.742
nprb	1.821
ptc	24.5923
ptb	25.7078
wacic	3.552
wactb	17.498
ttc	1395.33
ttb	499.402
ptmix	25.5194
ttmix	650.582
mixpnd	0.817683
grsvup	21524.5
badchan	{26}
bkgnd	458
escdate	05.Dec.96
esctime	21:13:01
DADSdate	97.08.18
DADStime	21:13:01
btchdate	05.Dec.96
btchtime	21:13:01

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:48:56 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	53.73	57.84	57.86	57.44	57.04	56.88	58.52	57.73	58.53	58.85	58.28	58.07
100	55.42	56.17	58.53	58.08	57.55	56.51	58.1	58.63	58.97	58.06	57.38	59.4
130	56.42	57.18	57.25	59.48	59.54	58.42	61.14	58.15	58.34	60.18	60.1	59.98
160	57.52	60.17	60.7	60.69	61.86	61.21	61.64	61.34	61.15	62.25	62.14	62
200	57.8	60.39	61.53	61.26	61.69	61.35	62.51	61.54	61.17	61.64	61.94	63.61
250	60.07	61.93	62.84	63.12	63.03	63.78	64.16	62.87	63.74	63.63	65	65.7
320	60.85	62.01	62.24	62.09	62.86	63.88	64.45	64.2	64.43	64.72	64.16	64.38
400	60.36	63.1	63.85	64.05	64.34	64.82	66.38	65.43	66.01	66.24	66.25	66.03
500	60.25	63.13	63.5	64.25	65.13	65.93	66.49	65.66	65.71	65.81	66.23	66.8
630	61.55	63.91	64.14	64.31	65.39	66.22	67.05	67.02	67.09	67.31	67.38	67.65
800	62.65	64.72	64.99	65.39	65.83	66.61	67.53	67.53	67.91	67.83	68.08	68.47
1000	63.47	64.38	64.94	65.6	66.13	66.78	67.59	68.12	68.3	68.39	68.54	68.6
1300	62.68	64.01	64.69	65.35	66.11	66.83	67.6	68.23	68.47	68.67	68.84	69.06
1600	61.97	63.72	64.55	65.35	65.98	66.54	67.47	68.1	68.51	68.67	68.85	68.71
2000	61.04	62.59	63.6	64.33	65.02	65.57	66.49	68.03	68.33	68.5	68.46	68.54
2500	58.33	60.35	61.56	62.49	63.33	63.72	64.85	67.1	67.38	67.38	67.38	67.72
3200	54.89	56.71	58.41	59.81	60.35	60.74	62.08	65.43	65.76	65.81	65.79	65.88
4000	49.24	52.02	53.63	54.69	55.22	58.12	57.66	62.47	62.73	62.74	62.77	62.99
5000	41.2	44.16	46.13	47.55	48.37	49.17	50.83	58	57.99	58.08	57.89	57.88
6300	29.66	33.52	38.08	37.95	38.8	39.54	41.86	51.49	51.63	51.57	51.27	50.91
8000	0	11.88	17.96	21.59	23.38	24.71	26.53	42.34	42.46	42.37	41.78	41.1
10000	0	0	0	0	0	0	0	26.98	26.96	26.05	25.23	22.95
OASPL	72.52	74.4	75.08	75.55	76.14	76.7	77.56	78.1	78.34	78.51	78.61	78.86
PNL	83.22	85.05	86	86.68	87.32	87.86	88.84	89.46	89.7	89.8	89.83	90.09

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.22	58.77	59.74	62.7	63.16	63.54	63.73	63.89	63.75	63.13	62.04	128.76
100	59.4	59.4	59.59	60.12	63.6	64.46	65.06	64.99	64.21	63.16	62.33	127.21
130	60	61.54	61.63	62.05	62.58	63.32	65.15	65.06	64.55	63.46	61.89	127.53
160	62.8	62.99	63.62	63.42	64.36	65.27	65.41	64.72	63.23	62.23	59.43	128.16
200	63.06	62.78	65	65.76	65.16	65.95	65.91	65.35	63.93	62.37	59.14	128.77
250	66.27	66.1	66.89	66.81	67.08	66.59	65.96	65.36	63.64	60.63	56.08	129.86
320	64.53	64.69	65.67	66.1	66.39	65.64	65.2	63.48	61.01	58.28	53.68	129
400	66.17	66.88	67.42	67.88	67.58	67.24	65.42	63.63	61.03	56.89	51.51	130.23
500	66.98	66.95	67.15	66.81	66.44	65.41	64.29	62.29	59.26	55.16	49.59	129.89
630	67.94	68.4	68.14	67.34	66.11	65.08	63.52	61.17	58.13	53.74	47.62	130.44
800	68.58	68.38	68.13	67.43	66.4	64.96	63.09	60.3	56.42	51.88	45.94	130.76
1000	68.93	68.98	68.52	67.37	65.85	64.45	62.45	59.56	55.69	50.96	44.56	130.94
1300	69.43	69.2	68.32	66.91	65.2	63.47	61.61	58.61	54.21	49.1	42.4	130.9
1600	68.93	68.81	68.03	66.3	64.34	62.65	60.61	57.27	52.73	47.19	40.02	130.57
2000	68.48	68.17	67.09	65.29	63.57	62.03	59.73	56.09	51.26	45.74	38.29	129.96
2500	67.53	67.08	65.89	64.28	62.28	60.2	57.83	54.35	49.36	43.22	34.77	128.74
3200	65.46	64.77	63.6	61.93	59.86	57.82	55.23	51.26	45.67	38.72	28.95	126.6
4000	62.19	60.94	59.57	57.74	55.58	53.29	49.99	45.32	39.24	31.32	17.98	123.03
5000	56.84	55.36	53.76	51.35	48.6	45.7	41.7	36.32	29.19	16.72	0	117.65
6300	49.86	47.97	45.66	42.81	39.47	35.8	30.82	23.23	0	0	0	110.54
8000	39.44	36.93	33.84	30.14	25.83	19.63	0	0	0	0	0	100.6
10000	20.17	15.14	0.41	0	0	0	0	0	0	0	0	83.76
OASPL	78.97	78.91	78.89	78.08	77.44	76.83	76.05	74.81	73.07	71.16	66.8	141.81
PNL	89.96	89.59	88.89	87.64	86.23	84.75	82.93	80.19	76.86	73.2	68.45	90.02

NASA Lewis Allison AST Jet Noise Test 1996

rdg	475
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	817.31
m01	0.29969
pamb	14.065
tamb	496.996
rhumid	89.9
winds1	0
nprc	1.393
nprb	1.438
ptc	19.5925
ptb	20.2255
wactc	2.854
wactb	12.595
ttc	1179.08
ttb	503.02
ptmix	20.1085
ttmix	627.914
mixpnd	0.665262
grsvisp	12626.6
badchan	(26)
bkgnd	459
escdate	05.Dec.96
esctime	21:49:20
DADSdate	05.Dec.96
DADStime	21:49:20
btchdate	05.Dec.96
btchtime	21:49:20

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 06:06:26 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	66.45	66.95	67.61	68.52	69.43	70.19	70.77	71.15	71.33	71.43	71.23	70.85	70.32	69.65	69.19	69.96	71.12	71.38	71.7	73.02	75.4	112.87
100	0	67.04	67.49	68.17	68.85	69.43	69.86	70.18	70.41	70.58	70.66	70.7	70.69	70.87	70.64	70.65	70.72	70.97	71.47	72.27	73.29	74.48	75.69	113.29
130	60.53	61.02	62.13	66.75	66.85	67	67.42	67.97	68.24	67.85	67.32	67.68	68.06	68.47	69.16	69.91	70.36	71.08	72.18	73.45	74.11	74.13	74.93	111.87
160	60.99	68.04	68.51	68.42	68.28	68.73	69.49	69.75	69.49	69.49	69.33	69.38	69.88	70.19	71.14	72.58	73.37	73.85	74.35	74.76	75.2	75.66	75.46	113.69
200	68.31	69.95	71.3	71.72	71.78	71.54	71.78	71.56	71.68	71.72	71.83	72.12	72.52	72.88	72.84	72.86	73.35	73.93	74.36	74.45	74.25	73.8	72.69	115.25
250	72.09	73.92	74.64	74.84	74.86	74.82	74.79	74.83	74.95	75.14	75.42	75.61	76.33	76.97	77.48	77.54	77.23	77.24	77.31	76.86	76.01	75.11	74.42	116.69
320	73.09	74.95	75.48	75.46	75.27	75.27	75.58	76.06	76.39	76.32	75.88	75.56	78.01	76.82	77.57	78.08	78.32	78.28	77.87	76.93	75.69	74.43	73.38	119.23
400	75.24	77.02	77.2	77.1	77.36	77.94	78.47	78.71	78.74	78.7	78.66	78.66	78.76	78.96	79.21	79.33	79.13	78.73	78.21	77.62	76.74	75.41	74.02	121.17
500	76.33	78.61	78.67	78.42	78.43	78.49	78.47	78.36	78.26	78.27	78.43	78.71	79.08	79.56	80.09	80.57	80.8	80.65	80.03	78.99	77.74	76.54	75.53	121.67
630	77.57	79.69	80.13	79.95	79.83	80.04	80.37	80.51	80.35	80.13	80	80.05	80.22	80.4	80.49	80.41	80.04	79.42	78.6	77.65	76.65	75.76	75.15	122.78
800	78.9	80.9	81.18	81.19	81.21	81.19	81.18	81.25	81.34	81.4	81.44	81.39	81.34	81.3	81.24	81	80.41	79.75	78.99	78.08	77.02	76.13	75.57	123.77
1000	79.92	81.67	81.96	81.8	81.62	81.71	81.98	82.11	82.13	82.17	82.13	82.01	81.94	81.95	82	81.63	81.22	80.35	79.32	78.18	77	76.07	75.67	124.44
1300	80.03	81.56	81.88	81.86	81.9	82.1	82.41	82.68	82.8	82.84	82.77	82.61	82.51	82.43	82.35	82.04	81.2	80.36	79.59	78.74	77.75	76.71	76.06	124.82
1600	80.4	81.8	82.13	82.29	82.46	82.7	82.99	83.22	83.33	83.38	83.47	83.55	83.33	83.06	83.03	82.9	81.97	80.94	79.92	78.79	77.6	76.58	76.15	125.4
2000	80.57	82.02	82.21	82.18	82.39	82.65	83.01	83.17	83.09	83.06	83.05	83.15	83.17	82.99	82.92	82.74	81.65	80.68	79.51	78.4	77.36	76.6	76.43	125.26
2500	81.2	82.14	82.26	82.33	82.45	82.41	82.84	82.9	82.62	82.61	82.76	83.13	83.22	83.04	82.84	82.42	81.52	80.5	79.51	78.53	77.55	76.73	76.51	125.14
3200	81.78	82.25	82.3	82.48	82.5	82.1	82.64	82.71	82.49	82.36	82.33	82.85	82.58	82.56	82.49	81.95	80.84	79.79	78.89	78.01	77.09	76.35	76.29	124.88
4000	88.99	81.42	81.59	81.77	81.62	81.47	82.25	81.92	81.67	81.68	81.52	81.73	81.69	81.17	80.86	80.24	79.52	78.79	77.99	77.09	76.13	75.38	75.5	124.47
5000	79.01	79.89	80.27	80.42	80.09	79.99	80.87	80.79	80.32	80.35	80.27	80.31	80.23	79.74	79.06	78.41	77.73	77.08	76.38	75.51	74.55	73.84	74.12	122.53
6300	77.66	78.6	79.05	79.25	78.79	78.29	79.68	79.53	78.78	78.95	78.66	78.82	78.87	78.39	77.58	76.67	75.67	74.86	74.18	73.44	72.67	72.13	72.49	121.09
8000	75.88	77.29	77.9	77.93	77.4	77.1	78.67	78.56	77.51	77.42	77.29	77.5	77.66	77.02	75.73	74.4	73.5	73.16	72.87	71.95	70.75	69.91	70.49	118.74
10000	91.26	74.21	74.5	74.59	74.55	74.52	75.36	75.23	74.09	73.66	73.5	73.4	73.82	73.55	72.44	71.15	70.23	69.67	69.14	68.36	66.99	65.62	66.15	120.14
OASPL	95.14	92.4	92.69	92.74	92.71	92.73	93.21	93.28	93.14	93.13	93.11	93.21	93.22	93.13	93.04	92.82	92.21	91.55	90.87	90.08	89.22	88.52	88.32	135.64

NASA Lewis Allison AST Jet Noise Test 1996

rdg	475
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nearbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	817.31
m01	0.29969
pamb	14.065
tamb	495.996
rhumid	89.9
winds1	0
nprc	1.393
nprb	1.438
ptc	19.5925
ptb	20.2255
wactc	2.654
wactb	12.595
ttc	1179.08
ttb	503.02
ptmix	20.1085
ttmix	627.914
mixpnd	0.665262
grsvixp	12626.6
badchan	(26)
bkgnd	459
eacdate	05.Dec.96
eactime	21:49:20
DADSdate	05.Dec.96
DADStime	21:49:20
btchdate	05.Dec.96
btchtime	21:49:20

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 06:06:32 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (ft)	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	45.07	46.42	48.88	47.84	47.64	47.41	50.15	50.87	49.6	48.51	47.71
80	0	42.64	42.88	40.72	44.73	47.11	48.07	50.1	49.29	48.92	49.4	48.16
100	42	43.35	44.17	47.27	48.81	48.87	48.36	47.85	47.88	48.96	47.29	48.6
130	41.81	46.23	48.45	49.58	49.99	50.67	50.66	49.57	48.73	49.79	49.19	49.86
160	48.27	49.05	50.1	51.37	52.55	53.65	54.64	51.28	51.68	51.19	51.94	52.89
200	50.75	52.86	54.49	55.02	55.04	55.03	54.95	54.39	55.24	55.8	56.05	55.57
250	50.67	53.24	53.83	53.94	54.97	56.13	57.23	55.45	55.46	55.04	54.55	54.16
320	52.21	54.87	55.59	56.28	56.43	56.95	56.99	57.79	57.99	57.76	57.38	57.05
400	52.87	55.71	56.71	56.77	57.45	58.03	58.59	57.09	57.24	57.24	57.38	57.31
500	53.25	56.04	57.13	57.58	58.08	58.63	58.81	58.86	58.69	58.63	58.59	58.49
630	54.44	56.89	57.71	58.22	58.5	58.85	59.41	58.15	58.24	59.38	58.96	58.76
800	54.3	56.85	57.61	58.05	58.34	58.8	59.24	59.55	58.47	59.36	59.41	59
1000	53.72	56.15	57.07	57.55	58.08	58.68	59.28	58.6	58.81	59.63	59.67	59.29
1300	53.38	55.54	56.47	57.03	57.47	58.09	58.62	59.62	58.89	59.57	59.3	59.17
1600	52.16	54.47	55.4	56.02	56.69	57	57.47	58.87	58.85	58.48	58.28	57.91
2000	51.15	53.08	53.81	54.51	55.11	55.2	55.83	57.63	57.25	57.04	56.91	56.89
2500	48.82	50.09	51.15	52	52.41	52.38	53.33	55.97	55.69	55.32	54.82	54.5
3200	52.67	45.16	46.43	47.24	47.43	47.71	48.5	53.01	52.83	52.35	51.79	51.28
4000	34.88	37.14	38.83	40.01	40.32	40.29	41.85	48.45	47.74	47.35	46.67	45.98
5000	21.87	25.82	28.4	30.1	30.41	30.88	32.77	41.82	41.02	40.85	39.85	39.32
6300	11.99	0	0	-3	0	5.62	12.39	32.76	31.56	30.91	29.98	28.91
8000	0	0	0	0	0	0	0	9.78	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	63.87	66.07	67.02	67.55	68	68.51	69	69.34	69.33	69.25	69.07	68.85
PNL	74.85	76.71	77.71	78.35	78.9	79.32	79.87	80.14	79.91	79.75	79.52	79.39

distance: (ft)	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.53	48.39	47.45	46.82	46.2	47.62	46.41	45.08	42.95	41.59	43.89	112.31
80	45.82	46.64	45.87	45.38	44.82	47.29	47.02	46.05	45.09	44.05	42.47	111.58
100	48.75	48.58	50.01	49.64	48.93	49.96	47.31	47.26	46.32	44.4	42.87	112.87
130	49.28	49.97	49.52	50.21	49.65	48.73	49.42	48.5	47.1	45.27	42.31	114.06
160	52.71	54.14	53.71	54.47	53.3	53.32	49.3	48.02	48.02	43.37	41.28	116.82
200	56.02	56.52	56.63	55.91	55.28	53.96	52.15	50.24	48.63	45.57	41.69	119.16
250	54.22	54.65	55.36	55.88	55.04	53.74	52.51	50.03	47.06	43.58	39.72	118.78
320	57.19	57.15	57	56.82	56.27	55.31	52.3	50.28	47.78	44.15	39.87	120.46
400	57.47	57.28	57.07	56.25	55.12	53.47	53.42	51.07	48.02	44.39	39.87	120.61
500	58.08	57.7	57.15	56.25	54.76	53.18	51.5	49.02	46.03	42.44	38.21	121.1
630	58.32	57.84	57.46	56.58	55	53.09	51.13	48.57	45.41	41.74	36.96	121.48
800	58.63	58.03	57.27	56.23	54.44	52.3	50.72	47.75	44.27	40.21	35.25	121.47
1000	58.77	58.19	57.39	56.22	54.37	52.17	50.01	47.36	43.91	39.48	33.68	121.46
1300	58.54	57.63	56.82	55.84	53.78	51.16	49.59	46.4	42.52	37.76	31.8	121.08
1600	57.61	56.85	55.92	54.82	52.52	49.96	48.2	44.88	40.93	38.11	29.8	120.03
2000	56.32	55.42	54.48	52.85	50.32	47.6	47	43.55	39.38	34.11	27.02	118.58
2500	53.8	52.7	51.41	49.67	47.27	44.46	44.65	41.08	36.59	30.73	22.75	116.21
3200	50.52	48.85	46.92	44.89	42.45	39.54	41.23	37.23	32.05	25.38	5.17	112.75
4000	45.09	43.56	41.41	38.77	35.52	31.92	35.89	31.26	25.12	10.74	0	108.95
5000	38.33	36.28	33.44	30.02	25.81	20.57	27.62	21.01	0	0	0	99.73
6300	27.45	24.51	19.08	3.66	0	0	3.86	0	0	0	0	89.24
8000	0	0	0	0	0	0	0	0	0	0	0	86.41
10000	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	68.54	68.15	67.67	66.93	65.6	64.18	62.54	60.35	57.82	54.79	51.91	131.53
PNL	78.87	78.15	77.28	76	74.05	71.92	69.35	66.25	62.57	58.27	52.54	77.79

NASA Lewis Allison AST Jet Noise Test 1996

rdg 476
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 954.7
m01 0.30037
pamb 14.0633
tamb 496.601
rhumid 90.23
winds1 0
nprc 1.54
nprb 1.816
ptc 21.6575
ptb 22.7263
wactc 3.068
wactb 15.136
ttc 1323.3
ttb 504.306
ptmix 22.5462
ttmix 842.335
mixpnd 0.76832
grsvlsp 17379.4
badchan (26)
bkgnd 459
escdate 05.Dec.96
esctime 21:59:59
DADSdate 05.Dec.96
DADStime 21:59:59
btchdate 05.Dec.96
btchtime 21:59:59
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 06:06:48 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	68.7	69.75	70.32	70.66	70.85	70.97	71.07	71.2	71.37	71.61	71.93	72.35	72.85	73.43	74.06	74.81	75.61	76.51	77.58	78.87	80.61	83.23	116.45
100	70.25	71.44	71.84	71.93	72.01	72.22	72.5	72.75	72.86	72.77	72.48	72.34	72.95	73.81	74.58	75.15	75.66	76.28	77.14	78.35	79.85	81.7	84.05	117.57
130	70.07	71.97	72.17	71.81	71.29	70.88	70.84	70.59	70.72	71.04	71.55	72.22	72.99	73.77	74.52	75.52	76.96	78.56	80.02	81.12	81.94	82.71	83.69	118.26
160	71.22	72.6	73.75	74.5	74.57	74.09	73.82	74.18	74.79	75.06	75.39	75.57	75	75.35	76.14	76.75	77.25	77.73	78.34	79.15	80.09	81.12	82.09	118.87
200	72.75	74.83	75.91	76.35	76.41	76.26	76.02	75.79	75.62	75.56	75.71	76.17	77.13	77.63	78.02	78.62	79.29	79.94	80.46	80.75	80.88	80.99	81.17	120.38
250	76.2	77.47	77.85	77.85	77.79	77.78	77.93	78.18	78.52	78.91	79.33	79.76	80.19	80.61	81.04	81.44	81.78	82.06	82.26	82.37	82.24	81.86	81.25	122.72
320	78.29	80.18	80.17	79.4	78.88	79.08	79.57	79.8	79.64	79.32	79.04	79.18	80.31	81.13	81.56	82	82.29	82.5	82.54	82.3	81.74	80.96	80.08	123.37
400	79.04	80.85	80.5	80.14	80.28	80.99	81.78	82.13	82.01	81.77	81.65	81.8	82.16	82.34	82.44	82.57	82.6	82.48	82.2	81.76	81.11	80.3	79.44	124.54
500	80.91	83	82.78	82.19	81.96	82.14	82.47	82.75	82.92	83.04	83.14	83.25	83.4	83.65	83.96	84.3	84.44	84.32	83.91	83.23	82.22	80.96	79.73	125.99
630	82.26	83.59	83.71	83.68	83.65	83.63	83.66	83.73	83.8	83.83	83.88	84.01	84.24	84.53	84.83	84.9	84.54	84.08	83.52	82.73	81.61	80.32	79.3	126.73
800	83.3	84.45	84.52	84.33	84.21	84.29	84.55	84.92	85.14	85.35	85.85	86.09	85.98	85.89	85.88	85.78	85.48	85.08	84.5	83.74	82.67	81.41	80.38	127.91
1000	84.66	85.91	85.68	86.26	85.04	85.17	85.51	85.74	85.97	86.21	86.39	86.52	86.68	86.61	86.38	86.02	85.5	84.91	84.27	83.49	82.58	81.67	81.09	128.56
1300	84.66	85.62	85.83	85.54	85.61	85.97	86.54	87.12	87.46	87.38	87.3	87.33	87.39	87.39	87.15	86.65	86.02	85.39	84.67	83.7	82.57	81.55	80.95	129.28
1600	84.66	85.78	86.02	86.1	86.31	86.69	87.21	87.58	87.63	87.54	87.6	87.68	87.66	87.71	87.78	87.55	86.62	85.65	84.73	83.73	82.71	81.86	81.47	129.69
2000	85.35	86.14	86.32	86.49	86.7	87.02	87.52	87.85	87.9	87.9	88.01	88.21	88.02	88.05	88.07	87.55	86.43	85.5	84.77	83.92	82.98	82.16	81.87	129.99
2500	85.84	85.82	86.03	86.41	86.77	87.01	87.49	87.81	88.05	88.2	88.21	88.31	88.41	88.13	88.08	87.98	86.91	85.76	84.83	84	83.19	82.43	82.12	130.1
3200	85.09	85.68	86.1	86.45	86.74	86.94	87.38	87.86	87.69	87.56	87.73	87.84	87.95	87.79	87.77	87.55	86.38	85.33	84.59	83.94	83.24	82.6	82.39	129.81
4000	90.38	84.93	85.46	85.62	85.84	86.16	86.72	86.79	86.95	87.09	87.22	87.14	86.99	86.42	86.24	86.2	85.25	84.19	83.32	82.62	81.94	81.37	81.56	129.12
5000	82.44	83.63	84.23	84.46	84.53	84.78	85.44	85.74	85.7	85.69	85.88	86	85.47	84.82	84.53	84.27	83.41	82.53	81.82	81.25	80.61	80.02	80.39	127.53
6300	95.31	82.37	82.87	83.19	83.43	83.58	84.2	84.58	84.75	84.72	84.56	84.42	83.96	83.32	82.99	82.59	81.45	80.41	79.7	79.15	78.61	78.26	78.82	127.51
8000	91.55	80.85	81.38	81.86	82.28	82.46	83.09	83.33	83.54	83.55	83.47	83.33	82.59	81.7	81.04	80.41	79.45	78.6	77.99	77.5	76.92	76.43	76.88	125.62
10000	90.01	77.51	77.52	78.48	78.78	80.17	79.94	80.09	80.27	80.11	79.9	79.13	78.38	77.73	77.52	77.31	76.29	75.08	74.1	73.54	72.86	72.07	72.4	122.62
OASPL	99.9	96.29	96.5	96.57	96.71	96.95	97.4	97.7	97.83	97.85	97.94	98.02	97.99	97.87	97.85	97.89	97.05	96.46	95.96	95.44	94.88	94.46	94.6	140.21

NASA Lewis Allison AST Jet Noise Test 1996

rdg	476
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nasrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	954.7
m01	0.30037
pamb	14.0633
tamb	496.601
rhumid	90.23
winds1	0
nprc	1.54
nprb	1.616
ptc	21.6575
ptb	22.7263
wactc	3.068
wactb	15.136
ttc	1323.3
ttb	504.306
ptmix	22.5462
ttmix	642.335
mbgnd	0.76832
grsvop	17379.4
badchan	(26)
bkgnd	459
escdate	05.Dec.96
esctime	21:59:59
DADSdate	05.Dec.96
DADStime	21:59:59
btchdate	05.Dec.96
btchtime	21:59:59

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 08:08:55 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	45.63	48.16	48.8	51.73	50.75	50.08	49.59	51.03	52.2	51.38	51.11	51.41
80	48.55	49.87	50.27	49.19	51.04	50.88	51.23	52.67	51.8	51.03	52.11	51.16
100	49.2	50.69	51.01	51.82	51.4	53.09	52.54	50.47	50.28	52.3	52.15	54.01
130	49.52	51.34	53.64	54.3	56.16	55.8	56.08	54	53.88	54.88	54.29	55.04
160	50.99	53.98	54.72	55.73	56.31	56.96	57.78	55.51	56.38	54.67	54.89	55.85
200	54.89	56.56	57.9	58.14	58.24	58.58	58.98	57.75	58.08	59.9	60.32	60.01
250	55.89	58	57.82	57.32	58.14	59.27	60.52	59.19	58.64	58.12	57.77	58.2
320	56.93	58.65	59.04	59.52	59.57	60.35	60.88	61.21	61.47	61.29	61.03	60.87
400	57.23	59.76	60.31	60.41	61.03	61.51	61.91	61.47	61.9	61.94	62	61.8
500	57.98	60.11	60.8	61.12	61.19	61.7	62.22	62.07	62.1	62.34	62.55	62.94
630	58.68	60.6	61.22	61.61	61.99	62.33	62.81	62.81	63.07	63.41	63.56	63.24
800	58.97	61.09	61.3	61.47	61.78	62.5	63.34	63.18	63.42	63.58	63.76	63.53
1000	58.39	58.93	60.87	61.32	61.83	62.53	63.36	64.08	64.37	64.05	63.83	63.84
1300	57.62	59.59	60.46	61.08	61.75	62.54	63.19	63.97	64.07	63.97	63.83	63.43
1600	57	58.61	59.42	60.28	61.08	61.63	62.14	63.54	63.57	63.53	63.38	63.32
2000	55.58	58.57	57.62	58.8	59.38	59.85	60.53	62.52	62.73	62.52	62.3	61.9
2500	51.86	53.58	54.99	55.89	56.51	57.1	57.8	60.94	60.87	60.61	60.35	59.93
3200	53.01	48.66	50.21	51.01	51.74	52.4	53.19	57.89	57.88	57.78	57.42	56.83
4000	38.04	40.88	42.73	43.97	44.83	45.48	48.52	53.42	53.18	52.75	52.42	51.76
5000	38.35	30.02	32.32	34.08	35.3	36.07	37.21	46.89	46.98	46.56	45.93	45.04
6300	4.97	0	8.33	14.68	18.87	20.33	21.37	37.55	37.57	37.14	38.31	34.87
8000	0	0	0	0	0	0	0	21.51	20.71	19.51	16.74	6.97
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.23	70.12	70.8	71.25	71.71	72.32	72.93	73.43	73.6	73.58	73.54	73.41
PNL	79.37	80.84	81.7	82.41	83.05	83.65	84.23	84.71	84.85	84.73	84.56	84.28

distance: (	1655.07	1732.05	1831.16	1956.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	53.67	51.84	51.08	51.17	51.06	52.88	51.78	51.23	50.06	49.13	52.21	118.42
80	50.36	52.46	52.27	52.11	51.79	54.85	52.68	52.1	51.64	51.35	50.94	117.06
100	53.55	53.05	54.38	54.08	53.31	54	55.14	54.93	54.19	53.02	51.43	118.5
130	54.72	55.74	55.54	56.42	55.79	54.9	53.42	52.87	52	50.78	48.98	119.3
160	58.02	57.08	56.79	58.2	57.8	58.14	55.43	54.31	52.59	50.51	49.01	120.79
200	60.28	60.58	60.49	59.78	59.15	58	57.12	55.74	54.65	51.98	48.3	123.27
250	58.33	58.58	58.95	59.28	58.69	57.58	57.13	55.4	53.36	50.38	46.8	122.64
320	61.27	61.11	61.05	60.8	60.1	59.13	58.34	54.41	52.43	49.13	45.34	124.22
400	61.79	61.51	61.37	60.7	59.47	57.95	57.39	55.32	52.4	48.86	43.77	124.78
500	62.53	61.83	61.15	60.61	59.87	58.57	56.35	54.07	50.98	47.08	42.47	125.05
630	62.87	62.61	62.08	60.93	59.44	57.51	56.72	54.24	51.02	47.01	41.81	125.8
800	63.38	62.79	61.96	60.8	59.23	57.43	55.8	53.07	49.82	45.77	40.8	125.71
1000	63.31	62.82	62.1	61.04	59.15	56.93	55.18	52.33	48.88	44.27	38.64	125.81
1300	63.09	62.8	61.81	60.45	58.28	55.93	54.43	51.35	47.71	43.1	37.15	125.52
1600	62.87	62.1	61.18	59.85	57.67	55.12	53.4	50.38	46.53	41.68	35.23	124.94
2000	61.47	60.54	59.72	58.53	55.88	53.14	52.28	49.03	45	39.78	32.65	123.56
2500	59.28	58.07	56.94	55.48	52.98	49.94	50.38	46.95	42.68	36.95	28.87	121.27
3200	55.76	53.97	52.43	50.8	48.21	45.04	46.57	42.77	37.88	31.38	21.72	117.69
4000	50.33	48.64	46.92	44.65	41.28	37.54	41.41	37.03	31.32	22.97	0	112.24
5000	43.41	41.11	38.8	36.07	32.15	27.45	33.27	28.05	19.49	0	0	105.31
6300	32.4	29.8	26.37	21.98	12.23	0	21.33	-2.7	0	0	0	95.06
8000	0	0	0	0	0	0	0	0	0	0	0	78.8
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	73.15	72.72	72.18	71.45	70.14	68.89	67.54	65.88	63.6	61.11	59.15	135.84
PNL	83.85	83.09	82.32	81.27	79.2	77.07	74.79	71.87	68.39	64.11	58.98	82.58

NASA Lewis Allison AST Jet Noise Test 1996

rdg 477
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 1029.2
m01 0.30008
pamb 14.0833
tamb 498.475
rhumid 89.42
winds1 0
nprc 1.742
nprb 1.821
ptc 24.4983
ptb 25.8093
wactc 3.508
wactb 17.298
ttc 1417.8
ttb 508.178
ptmix 25.422
ttmix 659.808
mixpnd 0.817235
gravixp 21411.5
badchan (26)
bkgnd 459
eacdate 05.Dec.96
eactime 22:09:36
DADSdate 97.08.25
DADStime 22:09:36
btchdate 05.Dec.96
btchtime 22:09:36
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 11:22:42 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	72.29	71.78	73.43	73.58	72.67	73.18	74.71	73.59	73.76	73.18	74.08	74.84
100	74.58	75.3	76.42	74.75	74.35	75.2	76.44	75.5	75.56	75.37	77.26	77.13
130	74.45	75.55	76.22	75.13	75.9	75.34	75.44	75.37	74.89	76.63	76.59	74.95
160	76.57	77.66	76.56	76.07	77.98	77.68	77.37	77.51	77.61	78.2	76.43	79.96
200	77.61	79.09	80.54	76.96	79.72	79.6	79.42	80.17	80.32	79.89	79.94	80.27
250	79.76	81.89	82.24	81.11	81.34	81.07	81.42	81.21	81.04	81.93	82.66	83.11
320	81.32	82.91	83.28	82.55	82.6	81.99	82.55	82.14	82.09	82.19	82.87	83.33
400	82.44	83.86	84.12	83.88	84.05	84.24	84.12	84.87	84.79	84.73	85.34	85.77
500	83.86	85.68	85.09	84.89	85.1	84.97	85.05	85.3	85.39	86.08	86.39	86.57
630	84.42	85.98	85.84	86.29	86.7	86.71	86.78	87.33	87.68	87.42	87.22	87.17
800	86.53	87.29	86.94	88.03	87.77	87.66	88	88.43	88.65	89.09	89.13	89.11
1000	87.22	88.52	88.36	88.51	88.42	88.81	89.03	89.55	89.8	90.16	90.3	90.87
1300	88.25	88.61	88.58	89.11	89.38	89.33	89.91	90.16	89.87	89.98	90.74	90.85
1600	88.49	89.26	89.43	89.87	90.21	89.87	90.54	90.51	90.65	90.78	91.17	91.57
2000	88.82	89.34	89.96	90.43	90.8	90.54	90.96	91.07	91.15	91.18	91.62	91.95
2500	88.96	89.36	90.17	90.07	90.91	90.81	91.15	91.24	91.24	91.34	91.86	91.97
3200	88.33	88.51	89.53	90.26	90.84	89.99	90.92	90.88	91.34	91.44	91.69	92.07
4000	87.51	87.85	88.98	89.43	89.75	89.46	90.33	90.09	90.26	90.47	90.97	91.58
5000	85.87	86.5	87.72	88.44	88.32	88.17	88.82	89.09	88.82	89.02	88.78	89.81
6300	84.56	85.34	86.46	86.77	87.34	86.62	87.59	88.05	87.63	87.89	88.11	87.96
8000	83.29	84.21	84.86	85.73	86.19	85.22	86.38	86.53	86.13	86.25	86.87	86.76
10000	81.2	81.44	81.47	82.9	83.33	83.14	82.6	83.26	82.78	82.41	83.42	82.16
OASPL	98.81	99.37	99.83	100.2	100.52	100.26	100.79	100.86	101	101.16	101.56	101.78

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.48	76.87	78.09	78.86	79.56	80.46	81.57	82.86	84.51	86.66	89.23	121.01
100	76.44	77.59	79.62	81.17	82.22	83.3	84.58	86.03	87.84	90.15	92.82	123.81
130	76.67	78.68	79.51	80.26	81.36	83.12	85.07	86.49	87.94	89.91	92.38	123.73
160	80.24	80.03	81	82.69	83.63	84.8	85.92	87.26	88.61	89.85	90.79	124.91
200	80.82	81.05	81.99	83.55	84.67	85.77	86.79	87.35	87.49	87.56	88.11	125.34
250	83.71	84.33	85.13	86.32	87.58	88.34	88.62	88.83	89.2	89.67	89.81	127.54
320	84.45	85.5	86.16	86.64	87.22	88.4	89.3	88.87	88.03	87.49	87.29	127.83
400	86.16	86.4	86.94	87.69	87.99	88.05	88.16	88.41	87.92	88.56	85.51	128.74
500	86.99	87.13	87.96	88.98	88.95	88.79	88.99	89.21	88.42	88.35	84.27	129.65
630	87.91	88.61	88.92	88.99	88.88	88.81	88.53	87.62	86.25	84.92	83.79	130.35
800	89.1	89.59	90.14	90.33	90.19	89.88	89.29	88.35	87.27	86.14	84.77	131.62
1000	90.83	90.9	90.84	90.58	90.23	89.54	88.8	88.35	87.57	86.2	85.18	132.48
1300	90.98	91.7	91.89	91.02	90.54	89.85	89.13	88.54	87.55	86.09	85.08	132.89
1600	91.66	92.19	92.26	91.62	90.88	90.11	89.42	88.8	87.92	86.75	86.29	133.49
2000	92.32	93.01	92.96	92.02	91.05	90.25	89.55	88.84	88.02	87.13	86.72	133.96
2500	92.55	93.11	93.02	92.29	91.34	90.13	89.29	89.35	88.92	87.52	86.96	134.08
3200	92.32	92.52	92.69	92.43	91.4	90.31	89.67	89.38	88.86	87.45	87.46	133.82
4000	91.66	91.39	91.28	91.13	90.47	89.52	88.92	88.96	88.22	86.82	87.14	133.07
5000	89.78	89.5	89.25	89	88.38	87.45	86.76	86.64	86.02	84.77	85.58	131.48
6300	88.12	87.95	87.64	87.14	86.19	85.13	84.49	84.42	83.9	82.85	83.72	129.93
8000	86.61	86.3	85.85	84.88	84.12	83.09	82.34	82.32	81.81	80.58	81.34	128.41
10000	82.31	82.68	82.29	81.63	81.16	79.49	77.91	78.12	77.88	78.23	78.54	125
OASPL	102.05	102.39	102.48	102.28	101.85	101.41	101.17	101.08	100.78	100.48	101.1	144.07

NASA Lewis Allison AST Jet Noise Test 1996

rdg	477
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1029.2
m01	0 30008
pamb	14.0633
tamb	496.475
rhumid	89.42
winds1	0
nprc	1.742
nprb	1.821
ptc	24.4963
ptb	25.6093
wactc	3.506
wactb	17.298
ttc	1417.8
ttb	508.176
ptmix	25.422
ttmix	659.806
mixpnd	0.817235
grswxp	21411.5
badchan	(26)
bkgnd	459
escdate	05.Dec.96
esctime	22:09:36
DADSdate	97.08.25
DADStime	22:09:36
btchdate	05.Dec.96
btchtime	22:09:36

**Scenario, Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 11:22:52 1997

Data ambi	14 70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (i	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	51.57	52.38	52.39	55.58	53.27	53.6	54.08	53.55	56.09	54.12	55.15	54.7
80	51.08	54.13	55.43	53.26	55.23	55.08	56.08	55.43	53.91	52.89	56.84	54.88
100	53.37	53.58	54.44	56.16	55.57	56.53	55.52	55.26	54.53	56.55	55.57	57.26
130	54.55	56.11	58.46	57.34	56.03	58.39	58.74	57.33	56.63	58.66	58.34	59.46
160	55.51	58.46	58.63	58.36	60.06	60.28	61.25	59.89	60.21	59.13	59.6	60.62
200	58.44	60.62	62.13	61.76	62.31	61.87	62.27	60.78	61.73	62.95	63.98	63.62
250	58.44	60.48	61.08	60.49	61.94	62.57	62.99	61.54	60.88	60.66	61.32	62.29
320	59.4	62.06	62.48	62.78	63.44	63.89	63.59	63.95	64.23	64.18	64.47	64.51
400	60.24	62.29	62.29	62.93	63.7	64.04	64.77	64.03	64.4	65.29	65.42	65.32
500	60.26	62.83	63.33	64.54	64.81	65.37	65.76	65.68	66.14	66.08	66.17	66.01
630	61.66	63.46	63.61	64.89	65.24	65.71	66.3	66.34	66.29	66.68	66.61	66.86
800	61.8	63.72	64.4	64.96	65.62	65.89	66.76	66.98	67.22	67.46	67.4	67.12
1000	61.97	63.25	63.81	65.18	65.75	65.92	66.77	67.13	66.97	66.94	67.41	67.41
1300	61.4	62.93	64.02	64.95	65.67	65.82	66.53	66.91	67.04	67.14	67.22	67.34
1600	60.49	62	63.26	64.1	65.09	65.33	65.82	66.76	66.63	64.69	66.9	66.86
2000	58.7	58.82	61.55	62.33	63.57	63.26	64.13	65.94	65.79	65.9	66.01	65.97
2500	55.13	56.37	58.3	59.52	60.53	60.32	61.34	64.17	64.59	64.42	64.34	64.36
3200	49.96	51.79	53.8	56.04	55.55	55.71	56.51	61.15	61.21	61.07	61.16	61
4000	41.41	43.71	46.11	47.51	48.06	48.7	49.81	56.76	58.28	56.27	56.3	55.29
5000	29.77	33.06	35.86	37.84	39.06	38.87	40.58	50.38	48.65	49.66	49.35	48.53
6300	0	11.03	17.63	21.79	24.01	24.18	24.9	40.81	40.22	39.86	39.73	38.41
8000	0	0	0	0	0	0	0	25.34	24.32	22.68	22.25	17.39
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	71.38	73.24	74.04	74.73	75.43	75.86	76.27	76.66	76.77	76.91	77.1	77.12
PNL	82.46	84.14	85.31	86.11	86.97	87.18	87.77	88.06	88.04	88.12	88.28	88.23

distance (i	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	56.97	56.4	56.48	56.62	56.82	59.83	56.84	56.54	55.72	55.21	59.47	121.54
80	53.66	57.45	56.07	58.18	57.53	59.59	60.06	59.8	59.64	59.74	59.6	123.2
100	57.53	56.66	58.78	59.75	59.96	61.03	60.25	60.3	60.14	60.14	60.08	123.98
130	59.07	59.53	59.26	61.17	61.15	60.94	60.97	60.99	60.53	59.48	57.54	124.81
160	60.59	61.24	61.43	63.35	63.71	64.39	61.76	60.92	59.23	57.08	56.17	125.95
200	64.38	65.13	65.25	64.59	64.26	64.02	63.46	62.21	61.38	59.78	56.96	127.98
250	62.78	63.22	63.53	64.07	64.03	63.27	63.92	61.98	59.57	56.58	53.4	127.06
320	64.79	64.82	65.29	65.6	64.84	63.72	62.3	61.07	59.02	55.27	51.17	128.2
400	65.31	65.31	65.32	64.72	63.68	62.69	62.46	61.29	58.62	54.13	48.47	128.3
500	65.65	65.42	65.43	65.13	64.34	63.21	61.34	58.95	55.7	51.64	46.92	128.6
630	67.11	67.06	68.74	65.78	64.34	62.39	61.39	58.83	55.59	51.71	46.07	129.39
800	67.18	67.07	66.26	65.13	63.76	61.91	60.27	57.96	54.81	50.32	44.74	129.53
1000	67.23	67.3	66.66	65.19	63.45	61.34	59.64	57.18	53.7	48.91	42.85	129.48
1300	67.05	67.3	66.59	64.88	62.75	60.56	59.07	56.42	52.9	47.9	41.89	129.31
1600	66.62	66.83	65.97	64.31	62.21	59.56	58.1	55.29	51.61	46.69	40.17	128.79
2000	65.83	65.5	64.69	63.23	60.77	58.05	56.8	54.38	50.71	44.87	37.47	127.58
2500	63.96	63.04	61.91	60.37	58.24	55.31	55.41	52.37	48.09	41.62	33.91	125.39
3200	60.22	58.81	57.32	55.55	53.11	49.89	52.19	49.03	44.23	36.65	27.65	121.53
4000	54.41	53.12	51.5	49.23	46.13	42.36	46.31	42.41	38.73	28.23	13.73	115.97
5000	47.51	45.68	43.4	40.5	36.8	32.18	38.11	33.36	26.27	5.95	0	108.78
6300	38.6	34.48	31.26	27.14	21.88	9.14	26.63	19.03	0	0	0	98.42
8000	12.53	0	0	0	0	0	0	0	0	0	0	80.79
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	77.08	77.1	76.74	76.08	75.04	74.13	73.15	71.72	69.97	68.02	66.89	139.95
PNL	88.07	87.8	87.15	86.02	84.19	82.19	80.17	77.7	74.44	70.49	66.41	86.73

75%L, 20UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL

1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL

Operating Conditions: B, C, D, F, G, H, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

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rdg 468
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 834.67
m01 0.00263
pamb 14.1855
tamb 499.344
rhumid 74.15
winds1 0
nprc 1.391
nprb 1.444
ptc 19.7042
ptb 20.455
wactc 2.774
wactb 13.28
ttc 1187.47
ttb 505.521
ptmix 20.3253
ttmix 823.357
mixpnd 0.681871
grsvisp 13399.8
badchan (26)
bkgnd 457
escdate 05.Dec.96
esctime 18:55:24
DADSdate 05.Dec.96
DADStime 18:55:24
btchdate 05.Dec.96
btchtime 18:55:24
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 05:53:03 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	73.22	74.47	75.35	75.95	76.33	76.58	76.78	76.94	77.21	77.64	78.3
100	73.91	75.01	75.9	76.61	77.19	77.66	78.16	78.63	79.14	79.74	80.46
130	75.17	75.6	75.87	76.03	76.12	76.21	76.35	76.59	76.98	77.59	78.46
160	76.26	76.72	77	77.26	77.65	78.22	78.91	79.66	80.4	81.03	81.47
200	76.54	77.22	77.78	78.26	78.69	79.08	79.47	79.89	80.37	80.93	81.59
250	76.87	77.57	78.18	78.7	79.23	79.77	80.38	81.1	81.48	81.92	83.4
320	77.56	78	78.37	78.75	79.2	79.78	80.43	81.04	81.54	82.07	82.74
400	76.59	77.77	78.79	79.57	80.01	80.3	80.8	81.46	82.2	82.75	83.31
500	76.63	77.82	78.56	79.1	79.5	79.79	80.12	80.57	81.18	81.94	82.8
630	76.46	77.59	78.41	79.03	79.56	80.06	80.62	81.14	81.73	82.49	83.25
800	76.9	78.1	78.97	79.61	80.1	80.52	80.91	81.31	81.75	82.3	83
1000	77.07	78.47	79.15	79.59	80.14	80.71	81.25	81.8	82.4	82.97	83.52
1300	76.63	77.98	78.91	79.58	80.05	80.5	81.03	81.65	82.2	82.68	83.36
1600	76.4	78.08	78.86	79.21	79.54	80.09	80.78	81.43	81.91	82.43	83.21
2000	75.54	77.09	77.89	78.49	78.99	79.54	80.21	80.88	81.42	82.02	82.87
2500	74.7	76.34	77.08	77.63	78.01	78.42	79.29	79.96	80.42	81.14	82.07
3200	73.72	75.36	76.15	76.85	77.32	77.6	78.47	79.22	79.58	80.1	81
4000	73.11	74.54	75.07	75.84	76.33	76.71	77.85	78.19	78.58	79.11	80.01
5000	71.8	73.33	73.78	74.21	74.55	75.12	76.4	77.37	77.62	77.88	78.9
6300	70.44	71.82	72.18	73.06	73.52	74.03	75.49	76.53	76.64	76.83	77.83
8000	69.01	70.68	71.1	71.94	72.46	72.84	74.6	76	76	76.21	77.7
10000	66.16	67.63	68.06	69.07	70.12	70.92	72.22	73.83	73.81	73.44	75.4
OASPL	88.73	89.86	90.55	91.1	91.55	92	92.61	93.23	93.72	94.27	95.08

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	79.24	80.41	81.76	83.23	84.77	86.31	87.82	89.22	90.46	91.5	92.27	0	126.56
100	81.32	82.32	83.45	84.7	86.07	87.55	89.07	90.43	91.43	91.88	91.72	0	127.52
130	79.61	80.99	82.51	84.1	85.68	87.16	88.46	89.47	90.06	90.11	89.49	0	126.35
160	81.75	82.19	83.06	84.49	86.2	87.92	89.43	90.59	91.25	91.19	90.22	0	127.52
200	82.41	83.41	84.47	85.47	86.35	87.04	87.48	87.61	87.38	86.68	85.51	0	126.21
250	83.79	84.69	85.87	86.9	87.74	88.32	88.5	88.31	87.75	86.73	85.14	0	127.21
320	83.48	84.35	85.54	86.54	87.22	87.57	87.41	86.81	85.58	84.4	83.24	0	126.52
400	84.3	84.88	85.82	86.43	86	85.92	86.24	85.73	84.48	82.94	81.47	0	126.27
500	83.71	84.61	85.41	86.03	86.35	86.38	86.09	85.41	84.1	82.3	80.4	0	125.94
630	84.03	84.87	85.38	85.67	85.92	85.79	85.06	83.93	82.54	80.54	78.72	0	125.73
800	83.62	84.63	85.48	85.96	85.83	85.38	84.31	82.87	81.31	79.78	78.17	0	125.62
1000	84.12	84.82	85.66	85.6	84.58	84.38	83.64	82.74	81.37	79.56	77.79	0	125.59
1300	83.96	84.79	85.62	85.59	84.86	84.06	83.1	82.05	80.76	79.1	77.03	0	125.43
1600	84.08	84.76	85.75	85.99	84.14	83.59	82.78	81.8	80.59	79.04	77.03	0	125.29
2000	83.58	84.36	85.45	85.46	83.68	82.89	81.86	80.72	79.88	78.32	76.48	0	124.75
2500	83.02	83.66	84.42	84.42	82.89	82.07	81.02	79.67	78.49	77.13	75.08	0	123.86
3200	81.86	82.46	83.28	83.31	81.92	80.88	79.81	78.23	77.02	75.54	73.39	0	122.8
4000	80.68	80.84	81.21	81.39	80.49	79.23	77.54	76.06	75	73.43	71.12	0	121.4
5000	79.59	79.84	79.62	79.34	78.37	77.42	75.77	74.09	72.72	70.45	68.25	0	119.95
6300	78.57	78.48	78.38	77.99	76.82	75.54	73.84	72.13	70.24	67.67	65.7	0	118.72
8000	78.48	77.82	77.26	76.56	75.47	74.32	72.49	70.52	68.31	65.42	63.59	0	117.92
10000	75.34	75.14	75	74.63	73.35	71.61	69.19	66.87	64.96	62.27	60.27	0	115.41
OASPL	95.83	96.55	97.43	97.97	98.04	98.38	98.67	98.88	98.95	98.77	98.25	0	138.54

NASA Lewis Allison AST Jet Noise Test 1996

rdg	468
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	834.87
m01	0.00263
pamb	14.1655
tamb	499.344
rhumid	74.15
windst	0
nprc	1.391
nprb	1.444
ptc	19.7042
ptb	20.455
wactc	2.774
wactb	13.28
ttc	1187.47
ttb	505.521
ptmix	20.3253
ttmix	623.357
mixpnd	0.681871
grsvlxp	13399.8
badchan	(26)
bkgnd	457
escdate	05.Dec.96
esctime	18:55:24
DADSdate	05.Dec.96
DADStime	18:55:24
blchdate	05.Dec.96
blchtime	18:55:24

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:53:09 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	51.44	53.17	54.45	55.37	55.99	56.4	56.88	58.9	57.14	57.47	57.98
100	52.09	53.88	54.97	55.89	56.82	57.49	58.05	58.56	59.04	59.54	60.08
130	53.29	54.22	54.89	55.38	55.7	55.98	56.2	56.47	56.84	57.34	58.04
160	54.3	55.26	55.94	56.53	57.17	57.9	58.69	59.47	60.18	60.71	60.98
200	54.48	55.64	56.62	57.43	58.1	58.68	59.16	59.62	60.06	60.51	61
250	54.61	55.82	56.83	57.7	58.48	59.2	59.91	60.66	61	61.35	62.64
320	55.05	56.02	56.82	57.55	58.26	59.02	59.78	60.43	60.9	61.32	61.61
400	53.74	55.46	56.93	58.08	58.77	59.24	59.85	60.56	61.26	61.7	62.06
500	53.55	55.11	56.31	57.23	57.9	59.39	58.83	59.32	59.89	60.53	61.19
630	52.66	54.38	55.7	56.71	57.53	58.26	58.92	59.49	60.05	60.68	61.24
800	52.54	54.38	55.77	56.82	57.62	58.26	58.77	59.21	59.62	60.03	60.51
1000	52.14	54.21	55.44	56.31	57.19	57.99	58.66	59.25	59.8	60.24	60.56
1300	51.12	53.17	54.88	55.75	56.56	57.27	57.93	58.8	59.11	59.45	59.9
1600	50.19	52.62	53.98	54.61	55.49	56.29	57.12	57.81	58.25	58.63	59.17
2000	48.44	50.81	52.25	53.38	54.23	55.03	55.86	56.57	57.07	57.52	58.12
2500	46.41	48.93	50.38	51.44	52.23	52.93	53.96	54.69	55.09	55.63	56.28
3200	43.61	46.24	47.81	49.12	50.04	50.63	51.69	52.5	52.8	53.13	53.73
4000	40.25	42.63	44.28	45.78	46.79	47.51	48.67	49.26	49.58	49.91	50.43
5000	34.96	37.72	39.2	40.48	41.41	42.48	43.99	45.03	45.21	45.24	45.82
6300	26.57	29.92	31.88	33.59	34.84	35.9	37.65	38.79	38.83	38.79	39.13
8000	1.86	15.11	19.87	23	24.69	26.03	28.48	30.08	29.94	29.7	30.53
10000	0	0	0	0	0	0	0	0	0	0	-1.35
OASPL	64.84	66.37	67.52	68.43	69.16	69.8	70.43	71.02	71.52	71.97	72.54
PNL	71.67	73.84	75.21	76.29	77.11	77.64	78.7	79.4	79.83	80.29	80.89

distance: (	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4365.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165 PWL	
80	58.65	59.51	60.48	61.44	62.39	63.24	63.91	64.31	64.35	63.91	62.82	0	126.48
100	60.7	61.38	62.11	62.88	63.66	64.44	65.11	65.47	65.25	64.22	62.18	0	127.39
130	58.95	60	61.13	62.22	63.21	63.96	64.44	64.43	63.8	62.34	59.81	0	128.15
160	61.01	61.13	61.62	62.54	63.64	64.64	65.3	65.44	64.86	63.27	60.35	0	127.21
200	61.58	62.25	62.89	63.39	63.66	63.63	63.2	62.28	60.78	58.51	55.34	0	125.8
250	62.79	63.36	64.11	64.83	64.86	64.69	63.96	62.72	60.84	58.19	54.5	0	126.8
320	62.29	62.83	63.58	64.04	64.08	63.66	62.56	60.64	58.23	55.37	52.01	0	125.68
400	62.79	63.02	63.51	63.56	62.47	61.59	60.95	59.27	56.58	53.23	49.37	0	125.09
500	61.83	62.35	62.69	62.73	62.36	61.54	60.24	58.31	55.45	51.67	47.14	0	124.31
630	61.73	62.17	62.17	61.87	61.38	60.36	58.53	58.07	53.01	48.88	44.23	0	123.65
800	61.02	61.43	61.77	61.61	60.7	59.28	57.08	54.22	50.88	47.04	42.32	0	123.04
1000	60.83	61.1	61.4	60.67	58.83	57.64	55.67	53.28	49.99	45.69	40.51	0	122.51
1300	60.18	60.53	60.79	60.06	58.47	56.61	54.33	51.67	48.32	43.99	38.22	0	121.79
1600	59.68	59.9	60.28	59.77	57.01	55.33	53.13	50.43	47.01	42.55	36.48	0	121
2000	58.43	58.74	59.17	58.39	55.6	53.61	51.09	48.07	44.61	40.07	33.78	0	119.68
2500	56.84	56.96	57.02	56.12	53.53	51.39	48.69	45.25	41.39	38.46	29.35	0	117.69
3200	54.14	54.18	54.19	53.24	50.63	48.11	44.95	41.22	38.95	31.38	23.24	0	115.03
4000	50.6	50.07	49.59	48.63	46.28	43.28	38.45	35.15	30.41	23.63	-0.94	0	111.27
5000	45.86	45.09	43.86	42.32	39.68	36.58	32.28	27.05	19.76	0	0	0	108.2
6300	39.01	37.86	36.52	34.43	31.02	26.79	20.17	0.54	0	0	0	0	99.28
8000	30.31	28.06	25.42	21.63	14.08	0	0	0	0	0	0	0	89.7
10000	0	0	0	0	0	0	0	0	0	0	0	0	65.31
OASPL	73	73.45	73.96	74.16	74.01	73.89	73.59	73.01	72.04	70.51	68.2	0	136.83
PNL	81.35	81.55	81.81	81.36	79.74	78.58	77.28	75.44	73.32	70.48	66.45	0	80.27

NASA Lewis Allison AST Jet Noise Test 1996

rdg	467
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1038.09
m01	0.00121
pamb	14.1657
tamb	499.214
rhumid	73.83
winds1	0
nprc	1.54
nprb	1.607
ptc	21.8152
ptb	22.7643
wactc	3.848
wactb	15.498
ttc	1330.08
ttb	505.726
ptmix	22.5755
ttmix	669.707
mixpnd	0.818179
grsvixp	20080.8
badchan	(26)
bkgnd	457
escdate	05.Dec.96
esctime	18:47:02
DADSdate	05.Dec.96
DADStime	18:47:02
blchdate	05.Dec.96
blchtime	18:47:02

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:50:44 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.22	79.65	80.52	80.95	81.05	80.93	80.73	80.54	80.5	80.72	81.3	82.34	83.75	86.46	87.38	89.44	91.55	93.62	95.57	97.32	98.79	99.89	0	132.71
100	79.14	80.08	80.76	81.23	81.55	81.78	81.99	82.23	82.55	83.02	83.67	84.56	85.68	87.03	88.58	90.32	92.22	94.22	96.09	97.56	98.31	98.19	0	132.82
130	78.84	79.25	79.59	79.89	80.18	80.5	80.87	81.33	81.9	82.58	83.4	84.38	85.56	86.93	88.54	90.37	92.42	94.55	96.44	97.73	98.05	97	0	132.69
160	80.64	81.03	81.25	81.49	81.88	82.55	83.39	84.1	84.47	84.76	85.26	86.08	87.17	88.45	89.89	91.42	92.97	94.44	95.68	96.54	96.86	96.5	0	132.86
200	81.46	82.14	82.86	83.06	83.38	83.86	83.96	84.3	84.73	85.31	86.06	87.02	88.15	89.38	90.65	91.92	93.14	93.87	93.76	93.37	92.71	91.67	0	131.89
250	80.53	81.03	81.57	82.2	82.91	83.7	84.5	85.17	85.62	86.03	86.58	87.35	88.34	89.52	90.85	92.27	93.4	93.94	93.85	93.15	91.78	89.78	0	131.73
320	81.66	82.24	82.66	82.99	83.3	83.62	84.01	84.48	85.07	85.8	86.7	87.75	88.86	89.92	90.84	91.49	91.79	91.67	91.19	90.39	89.31	88.02	0	130.78
400	81.18	81.86	82.5	83.09	83.63	84.25	85.06	85.69	86.17	86.95	87.79	88.45	89.14	90.07	90.87	91.34	91.75	91.73	91.05	89.35	87.47	85.75	0	130.9
500	81.87	82.22	82.61	82.95	83.34	83.86	84.42	84.87	85.41	86.29	87.12	87.83	88.91	89.99	90.73	91.26	91.66	91.21	90.18	88.75	86.93	84.83	0	130.53
630	81.2	82.02	82.82	83.6	83.92	84.34	84.85	85.43	86.01	86.64	87.37	88.18	89.03	89.9	90.53	90.34	90.21	89.84	88.56	87.17	85.87	84.51	0	130.17
800	81.54	82.65	83.44	84.04	84.51	84.91	85.31	85.76	86.34	87.06	87.91	88.65	89.16	90.09	90.52	90.32	90.07	89.29	88.3	87.08	85.48	83.63	0	130.32
1000	81.58	82.66	83.43	84.07	84.42	84.83	85.33	85.89	86.56	87.38	88.3	89.18	89.87	90.53	90.88	90.32	89.54	88.81	88.06	86.67	84.69	82.73	0	130.43
1300	81.75	83.03	83.7	84.08	84.49	85.06	85.54	86.02	86.74	87.77	88.61	89.09	90	91.04	90.9	90.17	89.55	88.6	87.49	86.34	84.92	83.23	0	130.55
1600	81.69	83.19	83.96	84.38	84.69	85.11	85.83	86.64	87.23	87.71	88.65	89.38	90.12	91.07	90.92	90.01	89.44	88.53	87.54	86.55	85.23	83.45	0	130.66
2000	80.93	82.65	83.45	83.86	84.22	84.72	85.44	86.28	86.93	87.46	88.3	89.35	90.38	91.2	90.71	89.31	89.07	88.59	87.77	86.85	85.75	84.12	0	130.5
2500	79.81	81.43	82.32	82.89	83.27	83.75	84.48	85.28	85.87	86.47	87.61	88.86	90.05	91.11	90.43	88.53	88.08	87.71	87.2	86.8	86.08	84.55	0	129.9
3200	79.13	80.75	81.61	82.24	82.57	82.87	83.76	84.65	85.35	86.11	86.96	87.83	88.63	89.78	89.48	87.81	87.29	86.78	86.16	85.59	84.66	83.18	0	128.97
4000	77.84	79.77	80.58	81.24	81.61	81.89	82.8	83.34	83.97	84.78	85.85	86.8	87.12	87.47	87.28	86.34	85.45	84.38	83.45	82.83	81.62	80.43	0	127.33
5000	76.26	78.21	79.12	79.66	79.77	80.3	81.55	82.2	82.61	83.44	84.8	85.19	85.14	85.29	84.97	84.08	83.18	82.04	80.8	79.74	78.43	77.1	0	125.49
6300	74.56	76.93	77.88	78.39	78.43	78.8	80.16	81.14	81.7	82.33	82.99	83.57	83.68	83.59	83.11	82.27	81.42	80.05	78.4	76.69	74.87	73.63	0	123.94
8000	72.93	75.5	76.71	77.44	77.54	77.81	79.41	80.33	80.91	81.46	82.26	82.75	82.4	81.86	81.28	80.83	79.95	78.3	76.34	74.14	71.95	70.73	0	122.75
10000	69.32	71.87	73.46	74.7	75.41	75.88	76.59	77.47	78.11	78.46	79.57	79.23	79.01	78.92	78.76	77.83	76.72	74.92	72.51	70.13	67.84	66.31	0	119.6
OASPL	93.41	94.51	95.2	95.7	96.07	96.5	97.13	97.73	98.29	98.95	99.8	100.61	101.45	102.41	102.85	103.07	103.64	104.18	104.68	105.13	105.3	105	0	143.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg	467
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
ambc	35.02
ambb	78.39
scale	4
vid	1038.09
m01	0.00121
pamb	14.1657
tamb	499.214
rhumid	73.63
winds1	0
nprc	1.54
nprb	1.607
ptc	21.8152
ptb	22.7643
wactc	3.848
wactb	15.496
ttc	1330.06
ttb	505.726
ptmix	22.5755
ttmix	869.707
mixpnd	0.818179
grsvisp	20080.8
badchan	(26)
bkgnd	457
excdate	05.Dec.96
exctime	18:47:02
DADSdate	05.Dec.96
DADStime	18:47:02
btchdate	05.Dec.96
btchtime	18:47:02

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 05:50:50 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.44	58.35	59.82	60.36	60.7	60.76	60.65	60.5	60.43	60.54	60.96	61.75	62.65	64.16	65.6	67.07	68.47	69.71	70.67	71.21	71.21	70.44	0	132.82
100	57.32	58.75	59.82	60.81	61.17	61.58	61.89	62.16	62.45	62.81	63.29	63.94	64.75	65.7	66.76	67.91	69.11	70.26	71.13	71.38	70.65	68.65	0	132.68
130	56.97	57.87	58.62	59.23	59.76	60.25	60.72	61.22	61.75	62.33	62.96	63.71	64.56	65.55	66.67	67.91	69.24	70.53	71.4	71.47	70.26	67.32	0	132.47
160	58.69	59.57	60.19	60.75	61.39	62.23	63.18	63.93	64.26	64.44	64.77	65.34	66.11	66.99	67.94	68.87	69.7	70.32	70.53	70.15	68.93	66.82	0	132.34
200	59.36	60.57	61.5	62.22	62.79	63.25	63.65	64.02	64.43	64.89	65.47	66.19	66.96	67.8	68.57	69.23	69.73	69.58	68.43	66.76	64.53	61.5	0	131.26
250	58.28	59.29	60.25	61.2	62.17	63.13	64.04	64.74	65.15	65.46	65.83	66.35	67.01	67.76	68.58	69.36	69.77	69.42	68.26	66.25	63.24	59.13	0	131.1
320	59.16	60.27	61.12	61.8	62.36	62.87	63.36	63.87	64.43	65.05	65.76	66.55	67.32	67.96	68.34	68.36	67.68	66.64	65.24	63.07	60.28	56.78	0	129.92
400	58.32	59.55	60.63	61.57	62.39	63.2	64.12	64.78	65.23	65.9	66.55	66.94	67.26	67.75	68.01	67.82	67.42	66.43	64.58	61.46	57.78	53.67	0	129.7
500	58.38	59.51	60.36	61.07	61.74	62.45	63.12	63.61	64.11	64.87	65.51	65.94	66.66	67.26	67.44	67.28	66.63	65.36	63.1	60.12	56.33	51.61	0	128.88
630	57.39	58.82	60.11	61.28	61.9	62.52	63.15	63.77	64.31	64.82	65.35	65.86	66.32	66.7	66.73	65.8	64.77	63.32	60.71	57.65	54.22	50.01	0	128.07
800	57.18	58.93	60.24	61.24	62.02	62.64	63.17	63.67	64.21	64.8	65.44	65.67	65.97	66.38	66.17	65.19	63.96	62.05	59.67	56.66	52.78	47.79	0	127.72
1000	56.66	58.41	59.72	60.8	61.48	62.11	62.73	63.34	63.97	64.64	65.33	65.87	66.16	66.28	65.76	64.59	62.8	60.84	58.57	55.26	50.76	45.43	0	127.31
1300	56.22	58.2	59.45	60.27	61.02	61.83	62.44	62.96	63.64	64.54	65.14	65.26	65.75	66.23	65.38	63.78	62.1	59.64	57.1	53.9	49.76	44.36	0	126.67
1600	55.47	57.72	59.11	59.96	60.64	61.31	62.18	63.04	63.58	63.91	64.6	64.97	65.25	65.6	64.69	62.87	61.18	58.68	56.16	52.93	48.67	42.84	0	126.33
2000	53.85	56.38	57.82	58.71	59.45	60.21	61.09	61.97	62.57	62.94	63.53	64.19	64.74	64.9	63.6	61.25	59.8	57.81	55.1	51.76	47.45	41.34	0	125.32
2500	51.52	54.01	55.6	56.72	57.51	58.27	59.16	60.01	60.55	61	61.86	62.68	63.33	63.69	62.14	59.16	57.38	55.36	52.75	49.67	45.37	38.78	0	123.57
3200	49.06	51.63	53.27	54.51	55.29	55.92	56.99	57.94	58.58	59.17	59.72	60.12	60.32	60.7	59.44	56.54	54.55	52.19	49.23	45.57	40.53	33.15	0	121.02
4000	45.02	48.09	49.8	51.16	52.06	52.89	53.81	54.42	55	55.57	56.3	56.73	56.35	55.84	54.54	52.18	49.52	46.27	42.6	38.29	32.3	23.47	0	117.06
5000	39.32	42.61	44.6	45.97	46.87	47.64	49.2	49.89	50.19	50.78	51.56	51.52	50.61	49.87	48.01	45.41	42.34	38.51	33.83	28.26	19.66	0	0	111.64
6300	31.04	35.1	37.36	38.93	39.79	40.71	42.36	43.47	43.93	44.21	44.3	44.04	43.17	41.78	39.53	36.47	32.81	27.86	20.58	0	0	0	0	104.4
8000	15.42	23.4	26.86	29.28	30.46	31.38	33.43	34.51	34.96	35.16	35.18	34.64	32.96	30.6	27.56	23.37	17.14	0	0	0	0	0	0	94.76
10000	0	0	0	0	0	7.45	13.83	16.53	17.7	17.12	17.38	14.18	5.04	0	0	0	0	0	0	0	0	0	0	75.19
OASPL	69.43	70.87	71.95	72.81	73.46	74.12	74.77	75.36	75.83	76.35	76.84	77.47	78.03	78.61	78.64	78.9	79.06	79.05	78.81	78.25	77.09	75.02	0	142.02
PNL	76.77	78.92	80.26	81.28	82.01	82.73	83.58	84.32	84.86	85.35	86.05	86.65	87.11	87.47	86.73	85.2	84.21	83.17	81.6	79.59	77.07	73.39	0	85.81

NASA Lewis Allison AST Jet Noise Test 1996

rdg 466
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 1014.75
m01 0.00237
pamb 14.1667
tamb 499.401
rhumid 72.54
winds1 0
nprc 1.742
nprb 1.824
ptc 24.6784
ptb 25.8401
wactc 3.402
wactb 17.881
ttc 1413.13
ttb 508.135
ptmix 25.6544
ttmix 851.115
mixpnd 0.811122
gravixp 21596.9
badchan [26]
bkgnd 457
escdate 05.Dec.96
esctime 18:33:57
DADSdate 05.Dec.96
DADStime 18:33:57
bichdate 05.Dec.96
bichtime 18:33:57
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 05:48:28 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.49	81.34	82.08	82.71	83.26	83.76	84.22	84.68	85.16	85.67	86.24	86.9	87.73	88.77	90.11	91.81	93.83	96.38	98.79	100.78	102.01	102.07	0	135.69
100	83.3	84.11	84.72	85.17	85.49	85.74	85.95	86.16	86.42	86.76	87.22	87.86	88.74	89.94	91.51	93.53	96.08	98.94	101.65	103.84	104.38	103.34	0	137.92
130	84.39	84.85	85.08	85.15	85.13	85.08	85.09	85.2	85.48	85.96	86.72	87.8	89.19	90.87	92.8	94.92	97.18	99.46	101.47	102.88	103.29	102.38	0	137.61
160	85.19	85.6	85.89	86.11	86.29	86.48	86.71	87.04	87.48	88.08	88.87	89.89	91.14	92.61	94.25	96.04	97.94	99.89	101.73	103.21	104.06	104.09	0	138.48
200	85.37	86.24	86.87	87.31	87.83	87.89	88.13	88.41	88.77	89.25	89.9	90.75	91.8	93.02	94.37	95.8	97.24	98.59	99.62	100.09	100.11	99.91	0	136.73
250	85.1	85.91	86.46	86.81	87.04	87.23	87.46	87.79	88.3	89.07	90.17	91.59	93.01	94.13	95.19	96.61	98.16	99.19	99.22	98.74	97.71	95.84	0	136.47
320	85.99	86.61	87.04	87.33	87.52	87.86	87.82	88.06	88.45	89.06	89.98	91.11	92.17	93.38	94.82	96.25	97.27	97.51	97.05	96.27	95.24	93.81	0	135.42
400	84.93	85.43	85.97	86.56	87.17	87.82	88.5	89.21	89.93	90.85	91.37	92.14	93.02	94.1	95.29	96.31	96.78	96.49	95.55	94.26	92.94	91.63	0	135.22
500	86.01	86.46	86.83	87.18	87.55	87.99	88.5	89.04	89.61	90.27	91.1	91.96	92.94	94.36	95.26	95.67	96.33	96.21	95.04	93.75	92.33	90.33	0	135
630	86.15	86.81	87.29	87.67	88.02	88.42	88.9	89.48	90.13	90.81	91.56	92.45	93.31	94.08	94.84	95.14	95.35	94.81	93.71	92.24	90.54	88.77	0	134.66
800	86.66	87.36	87.85	88.17	88.47	88.89	89.41	89.99	90.75	91.4	92.06	92.86	93.78	94.56	94.87	94.94	94.68	94.1	93.08	91.53	89.8	88.45	0	134.76
1000	86.59	87.44	88.02	88.46	88.88	89.35	89.74	90.26	90.91	91.51	92.37	93.27	94.19	94.79	94.85	95.08	94.75	93.75	92.56	91.3	90.01	88.56	0	134.89
1300	86.86	88.03	88.62	88.86	89.09	89.5	90.08	90.55	91.05	91.69	92.61	93.59	94.57	95.31	94.86	94.49	94.16	93.43	92.38	91.21	89.79	88.29	0	134.98
1600	86.87	88.13	88.66	88.89	89.17	89.7	90.28	90.74	91.21	91.93	92.78	93.77	95.04	95.6	95.01	94.69	94.43	93.82	93.18	92.41	91.22	89.53	0	135.29
2000	86.33	87.76	88.48	88.9	89.22	89.6	90.1	90.74	91.42	92	92.88	94.06	95.45	95.98	94.83	94.38	94.35	94.09	93.56	93.28	92.43	90.84	0	135.45
2500	85.42	86.71	87.39	88.15	88.71	89.1	89.8	90.55	91.19	91.61	92.68	93.93	95.2	95.64	94.67	94.04	94.15	94.47	94.13	94.02	93.42	91.89	0	135.31
3200	84.27	85.65	86.4	87.07	87.65	88.15	88.9	89.55	90.27	91.05	92.09	93.43	94.73	95.14	94.22	93.52	93.49	93.52	93.51	93.94	93.1	91.17	0	134.68
4000	83.09	84.61	85.3	85.98	86.42	86.83	87.87	88.5	89.27	90.1	91.07	92.19	93.1	93.32	92.67	92.03	92.08	91.33	90.9	91.84	90.39	88.78	0	133.13
5000	81.84	83.19	83.76	84.32	84.68	85.43	86.48	87.3	87.91	88.67	89.67	90.58	91.16	91.14	90.54	90.05	89.73	88.84	88.39	88.9	86.98	85.43	0	131.22
6300	79.86	81.55	82.27	82.83	83.26	83.93	85.13	86.05	86.71	87.45	88.15	88.95	89.59	89.61	88.78	87.8	87.61	86.4	85.63	85.69	83.49	82.32	0	129.49
8000	78.49	80.23	80.82	81.56	82.1	82.59	83.84	84.94	85.65	86.48	87.29	88.07	88.35	87.99	87.07	86.44	86.11	84.48	83.04	82.41	80.2	78.89	0	128.13
10000	75.32	76.64	77.37	78.45	79.43	80.17	80.9	81.69	82.46	83.29	84.05	84.25	84.76	85.05	84.6	84.02	83.24	80.93	78.5	77.84	75.58	73.74	0	124.95
OASPL	98.2	99.14	99.7	100.12	100.48	100.88	101.42	101.98	102.55	103.21	104.05	105.05	106.11	106.85	107.12	107.65	108.46	109.23	110.01	110.79	111.03	110.35	0	148.6

NASA Lewis Allison AST Jet Noise Test 1996

rdg 466
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 1014.75
m01 0.00237
pamb 14.1687
tamb 499.401
rhumid 72.54
winds1 0
nprc 1.742
nprb 1.824
ptc 24.6784
ptb 25.8401
wactc 3.402
wactb 17.881
ttc 1413.13
ttb 506.135
ptmix 25.6544
ttmix 651.115
mbpnd 0.811122
grsvisp 21596.9
badchan (26)
bkgnd 457
escdate 05.Dec.96
esctime 18:33:57
DADSdate 05.Dec.96
DADStime 18:33:57
bichdate 05.Dec.96
bichtime 18:33:57
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:48:33 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.7	60.04	61.17	62.12	62.91	63.58	64.15	64.64	65.08	65.49	65.9	66.32	66.82	67.47	68.33	69.44	70.86	72.47	73.88	74.68	74.43	72.62	0	135.81
100	61.48	62.78	63.79	64.56	65.12	65.53	65.84	66.09	66.31	66.55	66.85	67.25	67.81	68.6	69.69	71.12	72.95	74.98	76.69	77.47	76.72	73.8	0	137.77
130	62.51	63.47	64.1	64.48	64.71	64.84	64.95	65.09	65.33	65.72	66.3	67.14	68.21	69.49	70.93	72.45	74	75.43	76.44	76.62	75.53	72.99	0	137.38
160	63.24	64.14	64.84	65.38	65.8	66.16	66.5	66.86	67.27	67.77	68.39	69.16	70.09	71.14	72.29	73.48	74.67	75.77	76.58	76.82	76.13	74.21	0	138.11
200	63.29	64.67	65.71	66.48	67.05	67.48	67.82	68.14	68.47	68.85	69.32	69.92	70.64	71.44	72.29	73.11	73.82	74.31	74.29	73.5	71.98	69.76	0	138.26
250	62.84	64.17	65.14	65.82	66.3	66.67	67	67.36	67.84	68.5	69.43	70.59	71.68	72.38	72.93	73.73	74.53	74.67	73.63	71.85	69.19	65.21	0	135.82
320	63.47	64.63	65.49	66.13	66.58	66.9	67.18	67.44	67.8	68.31	69.04	69.92	70.84	71.42	72.33	73.12	73.37	72.68	71.1	68.94	66.19	62.55	0	134.52
400	62.07	63.12	64.11	65.04	65.92	66.76	67.56	68.3	68.98	69.59	70.15	70.62	71.15	71.78	72.43	72.78	72.45	71.19	69.08	66.36	63.23	59.51	0	133.98
500	62.72	63.75	64.59	65.3	65.95	66.58	67.2	67.78	68.31	68.85	69.48	70.07	70.68	71.64	71.96	71.66	71.49	70.35	67.95	65.12	61.73	57.12	0	133.31
630	62.35	63.61	64.57	65.35	65.99	66.59	67.2	67.83	68.44	68.99	69.54	70.13	70.81	70.87	71.05	70.81	69.82	68.29	65.85	62.71	58.9	54.27	0	132.52
800	62.3	63.63	64.64	65.37	65.98	66.61	67.26	67.88	68.6	69.13	69.59	70.1	70.57	70.85	70.62	69.81	68.6	66.85	64.4	61.08	57.06	52.58	0	132.13
1000	61.68	63.2	64.32	65.18	65.92	66.61	67.14	67.7	68.3	68.77	69.41	69.99	70.49	70.54	69.93	69.33	68.02	65.79	63.07	59.91	56.12	51.25	0	131.74
1300	61.34	63.21	64.37	65.07	65.62	66.27	66.98	67.5	67.95	68.45	69.13	69.78	70.31	70.48	69.33	68.1	66.7	64.66	61.99	58.76	54.65	49.46	0	131.27
1600	60.66	62.65	63.79	64.49	65.12	65.9	66.62	67.13	67.56	68.12	68.73	69.38	70.17	70.13	68.79	67.56	66.17	64.15	61.73	58.76	54.65	48.91	0	130.87
2000	59.25	61.48	62.83	63.75	64.45	65.09	65.74	66.43	67.08	67.48	68.09	68.9	69.8	69.66	67.83	66.3	65.05	63.29	60.85	58.12	54.08	48.01	0	130.15
2500	57.12	59.27	60.66	61.97	62.94	63.61	64.48	65.28	65.87	66.33	66.88	67.72	68.45	68.2	66.38	64.66	63.45	62.1	59.68	56.98	52.88	46.05	0	128.77
3200	54.19	56.56	58.09	59.34	60.39	61.2	62.13	62.84	63.49	64.09	64.82	65.7	66.4	66.05	64.14	62.25	60.72	58.88	56.51	53.85	48.89	41.06	0	126.43
4000	50.27	52.89	54.5	55.89	56.87	57.73	58.88	59.57	60.27	60.89	61.5	62.11	62.32	61.63	59.88	57.84	56.08	53.17	49.93	46.9	40.77	32.13	0	122.52
5000	44.65	47.62	49.24	50.8	51.59	52.79	54.08	54.95	55.51	56.04	56.62	56.91	56.66	55.52	53.52	51.38	48.91	45.29	41.45	37.61	29.34	16.39	0	117.04
6300	38.25	39.89	41.79	43.4	44.62	45.87	47.39	48.38	48.92	49.32	49.41	49.46	49.06	47.76	45.24	42.13	39.02	34.42	29.23	22.88	0	0	0	109.87
8000	24.26	28.83	31.36	33.45	34.96	36.18	37.98	39.13	39.7	40.12	40.17	40.01	39	36.85	33.54	29.84	25.53	17.08	0	0	0	0	0	99.86
10000	0	0	0	9.99	17.42	19.99	22.21	23.4	24.13	24.53	24.25	23.05	21.08	17.38	0.98	0	0	0	0	0	0	0	0	83.06
OASPL	73.97	75.34	76.34	77.09	77.7	78.26	78.8	79.3	79.81	80.31	80.8	81.59	82.27	82.75	82.94	83.25	83.65	83.91	84.02	83.79	82.7	80.17	0	146.72
PNL	81.9	83.81	85.06	86.06	86.86	87.56	88.33	89	89.56	90.08	90.85	91.38	92.03	92.04	91.1	90.25	89.57	88.73	87.41	86.19	84.02	80.57	0	91.03

NASA Lewis Allison AST Jet Noise Test 1996

rdg	465
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	827.37
m01	0.20031
pamb	14.126
tamb	499.123
rhumid	67.9
winds1	0
nprc	1.369
nprb	1.443
ptc	19.6238
ptb	20.3867
wactc	2.749
wactb	13.203
ttc	1176.33
ttb	504.663
ptmix	20.2553
ttmix	620.541
mixpnd	0.677439
grsvup	13197.4
badchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	18:19:58
DADSdate	05.Dec.96
DADStime	18:19:56
btchdate	05.Dec.96
btchtime	18:19:56

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:46:09 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	68.52	68.54	68.89	68.69	68.62	69.06	69.65	70.74	71.55	72.11	72.28	72.09
100	69.59	70.22	70.68	71.02	71.28	71.49	71.67	71.85	72.05	72.28	72.54	72.85
130	69.07	69.11	69.24	69.44	69.7	70	70.35	70.74	71.15	71.58	72.03	72.49
160	69.34	70.24	70.91	71.36	71.66	71.89	72.09	72.31	72.58	72.92	73.34	73.83
200	70.5	71.21	71.56	71.84	72.19	72.69	73.22	73.58	73.72	73.9	74.28	74.91
250	72.37	73.33	73.66	74.13	74.27	74.38	74.54	74.69	75.43	76.1	76.9	77.46
320	72.48	73.63	74.29	74.95	74.83	74.94	75.08	75.25	75.57	76.04	76.68	77.42
400	72.18	74.14	75.17	75.27	75.03	75.26	75.64	76.26	76.46	76.77	77.36	78.15
500	73.4	75.08	75.83	75.99	75.96	75.95	76.03	76.22	76.54	77.03	77.71	78.5
630	73.12	75.4	76.24	76.33	76.31	76.55	76.81	77.05	77.38	77.88	78.41	78.87
800	74.29	76.87	77.3	77.37	77.43	77.64	77.87	78.14	78.53	78.95	79.22	79.6
1000	74.72	76.8	76.68	76.6	76.88	77.32	77.8	78.28	78.66	78.88	79.1	79.47
1300	74.41	76.64	76.97	77.08	77.35	77.78	78.13	78.58	78.93	79.17	79.17	79.33
1600	74.28	76.28	76.54	76.59	76.82	77.24	77.62	77.95	78.25	78.5	78.77	79.26
2000	73.63	75.41	75.52	75.54	75.83	76.29	76.81	77.28	77.65	77.91	78.26	78.84
2500	72.38	74.38	74.73	74.8	74.96	75.19	75.71	76.21	76.57	76.91	77.33	77.84
3200	71.64	73.3	73.9	74.56	74.95	74.78	75.03	75.31	75.58	75.9	76.24	76.69
4000	70.65	72.54	73.3	73.72	73.96	74.17	74.58	74.59	74.71	74.99	75.27	75.5
5000	69.11	71.5	72.25	72.39	72.59	73.15	73.81	73.85	73.82	74.1	74.26	74.21
6300	68.26	70.9	71.7	71.92	72.13	72.5	73.24	73.47	73.46	73.66	73.33	73.07
8000	67.85	70.75	71.61	71.93	72.28	72.54	73.43	73.44	73.47	73.78	73.26	72.93
10000	66.55	68.79	69.54	70.32	71.12	71.6	71.76	71.57	71.47	71.54	70.85	69.69
OASPL	85.29	87.14	87.64	87.81	87.99	88.26	88.64	88.95	89.25	89.59	89.9	90.32

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.9	72.03	72.73	73.91	75.35	76.88	78.4	79.81	81.13	82.5	84.3	117.24
100	73.24	73.71	74.29	74.89	75.81	76.76	77.63	78.92	79.94	80.98	82.29	117.31
130	73.01	73.57	74.2	74.88	75.63	76.44	77.33	78.19	78.96	79.71	80.68	116.58
160	74.4	75.05	75.77	76.55	77.39	78.3	79.25	80.13	80.83	81.34	81.75	118.23
200	75.74	76.64	77.43	78	78.35	78.53	78.64	78.71	78.81	79.12	79.7	118.51
250	78.11	78.74	79.35	79.87	80.26	80.47	80.48	80.26	79.83	79.31	78.79	120.33
320	78.18	78.84	79.4	79.79	80	80.01	79.79	79.35	78.73	78.03	77.38	120.2
400	78.62	79.11	79.58	79.77	79.65	79.37	78.89	78.16	77.17	76.07	75.23	120.29
500	79.22	79.61	79.8	79.78	79.51	79.12	78.62	77.87	76.8	75.62	74.59	120.53
630	79.46	79.78	80.04	79.58	78.71	78.19	77.27	76.27	75.25	74.26	73.27	120.65
800	80.18	80.56	80.52	79.93	78.88	77.71	76.63	75.65	74.69	73.65	72.66	121.34
1000	79.9	80.63	80.6	79.82	78.69	77.61	76.55	75.42	74.23	73.13	72.34	121.2
1300	79.91	80.62	80.97	80.23	78.75	77.33	76.05	74.85	73.74	72.75	72.19	121.38
1600	79.78	80.61	81.25	80.63	78.88	77.13	75.89	74.73	73.52	72.61	72.1	121.13
2000	79.39	79.95	80.87	80.2	78.17	76.55	75.5	74.46	73.18	72.11	71.54	120.52
2500	78.23	78.9	79.4	78.89	77.57	76.14	74.83	73.33	71.86	71.07	70.92	119.48
3200	77.06	77.51	77.83	77.23	76	74.87	73.88	72.47	70.89	69.92	69.77	118.41
4000	75.6	75.55	75.4	74.85	73.57	72.67	71.72	70.22	68.6	67.84	67.96	117.07
5000	74.15	74.05	73.61	72.66	71.42	70.34	69.55	68.23	66.6	65.82	65.95	115.79
6300	73.17	73.15	72.42	70.96	69.43	68.44	67.82	66.5	64.78	63.93	63.96	114.97
8000	72.81	72.83	71.6	69.64	68.11	67.29	66.87	65.55	63.56	62.4	62.24	114.78
10000	69.96	70.68	69.72	67.72	65.94	64.77	64.44	62.91	60.27	58.62	58.62	112.78
OASPL	90.82	91.34	91.7	91.44	90.85	90.45	90.21	90.02	89.9	90.01	90.54	132.58

NASA Lewis Allison AST Jet Noise Test 1996

rdg	485
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbid	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	827.37
m01	0.20031
pamb	14.128
tamb	499.123
rhumid	67.9
winds1	0
nprc	1.369
nprb	1.443
ptc	19.6238
ptb	20.3867
wactc	2.748
wactb	13.203
ttc	1176.33
ttb	504.863
ptmix	20.2553
ttmix	620.541
mixpnd	0.677439
grsvisp	13197.4
badchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	18:19:56
DADSdate	05.Dec.96
DADStime	18:19:56
btchdate	05.Dec.96
btchtime	18:19:56

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:46:14 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	45.71	49.41	49.57	49.56	49.59	49.6	52.02	50.7	49.67	52.5	52.03	51.83	51.39	51.29	51.3	53.49	52.99	52.59	52.07	51.8	50.9	49.84	48.81	118.49
100	48.84	46.62	48.82	48.89	49.21	48.77	50.5	51.78	51.12	50.5	50.17	52.35	52.33	51.98	51.43	50.85	52.5	52.4	52.31	52.05	51.43	50.4	48.89	118.31
130	47.51	47.86	47.75	49.98	50.25	50.25	52.01	50.82	50.8	52.27	52.11	52	52.16	54.01	53.98	53.82	53.63	53.57	54.72	54.39	53.58	52.09	49.87	117.81
160	47.59	50.06	50.69	50.95	52.21	52.12	53.11	52.13	51.9	52.94	52.93	52.98	54.15	54	54.02	53.85	54.5	53.84	52.74	51.57	50.08	49.39	47.36	117.53
200	49.56	50.36	51.95	52.05	53.2	53.23	54.27	53.3	52.96	53.5	53.4	54.29	54.42	54.86	55.78	55.7	55.3	55.7	54.62	53.13	51.14	49.42	46.2	118.66
250	50.24	51.63	53.13	54.12	54.27	54.7	54.82	54.46	56.78	56.09	57.24	57.45	58.16	58.17	58.49	57.99	57.73	56.54	55	53.46	51.03	47.84	44.16	120.49
320	49.85	51.03	52.39	53.02	53.2	53.88	54.45	54.64	54.64	55.12	54.86	55.58	56.79	55.67	55.89	55.42	55.1	54.07	53.14	50.97	48.35	45.43	41.52	118.59
400	49.54	52.18	53.59	54.32	54.45	54.47	54.78	55.34	55.82	55.69	56.14	56.65	56.74	57.04	57.03	56.69	55.28	54.03	52	50.09	47.17	43.62	39.21	119.24
500	49.23	52.03	53.3	53.91	54.3	54.73	55.04	54.98	55.29	55.84	56.45	56.9	57.12	56.91	56.35	55.16	53.87	52.17	50.42	47.94	44.67	41.28	36.75	118.76
630	49.21	51.96	53.46	54.02	54.68	55.15	55.69	55.4	55.66	56.23	56.53	56.76	57.14	57.33	56.94	55.56	53.61	51.74	49.2	46.41	43.47	39.38	34.19	118.92
800	49.73	52.64	53.16	53.56	54.09	54.74	55.27	56.05	56.36	56.36	56.47	56.57	56.87	56.61	56.05	54.65	52.74	50.53	48.1	45.32	41.81	37.56	32.06	118.56
1000	49.08	51.92	52.74	53.03	53.64	54.36	54.95	55.73	55.99	56.1	56.08	56.06	56.16	56.12	55.52	54.1	51.87	49.51	46.76	43.53	39.69	35.18	29.41	118.04
1300	48.02	50.89	51.78	52.39	52.91	53.48	53.94	55.51	55.83	55.91	55.7	55.54	55.74	56	55.82	54.27	51.5	48.42	45.62	42.52	38.72	34.15	28.08	117.65
1600	46.97	49.75	50.34	50.7	51.25	51.92	52.58	54.35	54.64	54.7	54.74	54.98	54.71	54.87	55.02	53.34	50.22	47.28	44.4	41	36.78	31.58	24.84	116.53
2000	44.73	47.36	48.27	48.87	49.43	49.96	50.46	52.99	53.21	53.3	53.36	53.37	53.43	53.31	53.18	51.58	48.78	45.65	42.48	38.68	34.03	28.73	21.63	114.89
2500	41.73	44.53	45.75	46.78	47.55	47.77	48.26	50.94	51.25	51.36	51.32	51.35	51.16	51.08	50.61	48.96	46.26	43.27	39.92	35.78	30.69	24.74	12.08	112.66
3200	38.35	41.14	42.76	43.97	44.63	45.04	45.6	48.8	48.73	48.79	48.79	48.7	48.31	47.71	46.88	44.67	41.93	39.07	35.6	30.97	25.18	14.73	0	109.65
4000	32.61	36.23	37.84	38.72	39.52	40.55	41.42	45.65	45.67	45.74	45.52	45.19	44.55	43.34	41.88	39.57	36.57	33.33	29.61	24.27	12.5	0	0	105.76
5000	24.28	28.71	30.94	32.28	33.23	34.17	35.21	41.51	41.32	41.38	40.98	40.04	39.15	38.1	36.14	33.21	29.61	25.58	19.7	0	0	0	0	100.63
6300	0	14.52	19.38	22.11	23.97	25.36	28.99	35.85	35.63	35.51	34.71	33.78	32.84	31.47	28.77	24.28	17.64	0	0	0	0	0	0	94.1
8000	0	0	0	0	0	0	0	27.18	27.2	27.1	25.68	24.02	21.71	18.3	8.97	0	0	0	0	0	0	0	0	84.47
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.36	62.58	63.66	64.25	64.73	65.11	65.78	66.22	66.44	66.8	66.97	67.23	67.45	67.53	67.42	66.66	65.66	64.57	63.4	62	60.27	58.45	56.09	130.01
PNL	68.69	71.33	72.32	72.96	73.55	74.04	74.71	75.16	75.37	75.59	75.6	75.69	75.7	75.58	75.25	73.86	71.78	69.5	67.35	64.81	61.71	57.88	53.04	75.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg	464
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	960.78
m01	0.2001
pamb	14.1305
tamb	499.335
rhumid	65.82
winds1	0
nprc	1.544
nprb	1.611
ptc	21.8175
ptb	22.7642
wacic	3.039
wacib	15.44
ttc	1325.84
ttb	505.006
ptmix	22.6065
ttmix	639.965
mixpnd	0.774843
grsvixp	17754.3
badchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	18:10:48
DADSdate	05.Dec.96
DADStime	18:10:48
bichdate	05.Dec.96
bichtime	18:10:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:43:47 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.04	72.78	73.3	73.69	73.99	74.25	74.51	74.8	75.14	75.54	76.02	76.61	77.3	78.14	79.12	80.25	81.53	82.96	84.57	86.21	87.86	89.61	91.85	123.38
100	73.35	74.04	74.62	75.1	75.5	75.86	76.19	76.52	76.87	77.25	77.67	78.15	78.69	79.33	80.08	80.84	81.92	83.03	84.26	85.5	86.67	87.85	89.32	123.18
130	73.44	74.19	74.44	74.36	74.12	73.84	73.63	73.57	73.69	74.05	74.66	75.58	76.7	78	79.41	80.9	82.43	83.97	85.48	86.83	87.94	88.85	89.78	123.31
160	75.27	75.48	75.8	76.2	76.66	77.16	77.68	78.2	78.71	79.21	79.68	80.14	80.61	81.14	81.76	82.49	83.34	84.34	85.46	86.51	87.36	88	88.56	124.35
200	75.88	76.66	77.09	77.37	77.62	77.91	78.27	78.69	79.17	79.66	80.16	80.67	81.23	81.83	82.47	83.13	83.78	84.38	84.91	85.31	85.53	85.61	85.7	124.2
250	76.34	77.3	77.87	78.21	78.47	78.72	79.01	79.35	79.73	80.15	80.61	81.15	81.87	82.64	84.09	84.95	85.23	85.44	85.82	86.15	86.17	85.75	84.8	125.09
320	77.51	78.2	78.54	78.7	78.82	78.98	79.22	79.58	80.07	80.66	81.34	82.06	82.79	83.47	84.06	84.56	84.96	85.27	85.48	85.4	84.89	83.88	82.38	125.08
400	77.42	78.47	78.99	79.23	79.55	80.08	80.58	80.84	81.17	81.65	82.4	82.72	83.17	83.89	84.64	84.7	84.63	85	84.95	84.47	83.67	82.54	81.04	125.31
500	77.86	78.77	79.34	79.74	80.05	80.21	80.26	80.49	80.88	81.55	82.23	82.78	83.39	83.98	84.42	84.62	84.59	84.46	84.3	83.86	82.93	81.54	79.64	125.15
630	78.26	79.6	80.15	80.47	80.74	81	81.19	81.62	81.85	81.96	82.7	83.31	83.58	84	84.36	84.43	84.13	83.7	83.25	82.64	81.72	80.38	78.5	125.27
800	79.6	81.16	81.49	81.5	81.43	81.44	81.68	82.11	82.66	83.28	83.88	84.44	85.03	85.24	85.11	84.41	83.58	83.07	82.63	82	81.08	79.83	78.35	125.92
1000	79.99	81.64	82.15	82.13	82.09	82.26	82.6	82.89	83.13	83.49	84.04	84.75	85.28	85.55	85.61	84.84	83.83	83.22	82.51	81.59	80.52	79.21	78.01	126.3
1300	80.17	82.06	82.47	82.87	83.05	83.21	83.39	83.45	83.64	84.11	84.63	85.19	85.72	86.31	86.12	85.15	83.95	82.92	82.17	81.32	80.24	79.19	78.26	126.78
1600	80.22	81.83	82.26	82.5	82.65	82.83	83.07	83.36	83.72	84.19	84.79	85.52	86.28	86.84	86.73	85.65	84.23	83.26	82.5	81.71	80.77	79.7	78.58	126.96
2000	79.51	81.28	81.95	82.1	82.12	82.25	82.63	83.23	83.54	83.75	84.3	85.17	86.12	86.87	86.94	85.76	84.15	83.07	82.35	81.89	80.94	80.06	79.19	126.76
2500	78.17	79.7	80.25	80.54	80.84	81.37	82.1	82.66	83.03	83.18	83.52	84.37	85.28	86.3	86.42	85.43	83.95	82.89	81.95	81.22	80.27	79.45	79.01	126.06
3200	77.22	78.83	79.61	79.96	80.19	80.43	80.83	81.26	81.74	82.21	82.7	83.53	84.26	84.92	84.99	84.03	82.66	81.69	80.96	79.97	78.87	78.22	78.03	124.94
4000	76.07	77.69	78.47	78.84	79.04	79.38	79.92	80.39	80.79	81.13	81.52	82.11	82.51	82.4	82.23	81.78	80.88	79.87	79.01	77.88	76.71	76.18	76.22	123.34
5000	74.45	76.37	77.22	77.58	77.45	77.93	78.97	79.34	79.57	79.77	80.16	80.61	80.65	80.11	79.71	79.16	78.29	77.45	76.71	75.61	74.32	73.63	73.54	121.62
6300	73.08	75	75.84	76.14	76.11	76.54	77.64	78.27	78.71	78.85	78.83	79.16	79.02	78.39	77.93	77.34	76.38	75.27	74.25	73	71.76	71.25	71.23	120.16
8000	71.93	74.01	75.03	75.32	75.24	75.7	77.31	77.64	77.81	78.04	78.41	78.64	78.13	77.14	76.24	75.35	74.45	73.59	72.62	71.25	69.86	69.28	69.28	119.23
10000	69.91	71.19	71.98	72.84	73.11	73.92	75.17	75.49	75.75	75.78	75.96	75.37	74.84	74.09	73.68	73.19	72.03	70.48	69.21	67.7	66.11	65.33	65.47	116.68
OASPL	90.56	91.97	92.51	92.76	92.91	93.16	93.56	93.93	94.28	94.67	95.19	95.81	96.39	96.91	97.12	96.81	96.4	96.32	96.47	96.64	96.79	97.02	97.62	138.06

NASA Lewis Allison AST Jet Noise Test 1996

rdg	464
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	960.78
m01	0.2001
pamb	14.1305
tamb	499.335
rhumid	65.82
winds1	0
nprc	1.544
nprb	1.611
ptc	21.8175
ptb	22.7642
wactc	3.039
wactb	15.44
ttc	1325.64
ttb	505.008
ptmix	22.8085
ttmix	639.965
mixpnd	0.774643
prsvixp	17754.3
badchan	(26)
bkgnd	456
escdate	05.Dec.96
esctime	18:10:48
DADSdate	05.Dec.96
DADStime	18:10:48
btchdate	05.Dec.96
btchtime	18:10:48

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 05:43:54 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120
80	49.21	53.09	53.53	53.68	53.85	54	56.54	54.78	53.26	56.36	58.13	56.12	56.28	58.55
100	51.49	51.83	54.22	54.32	54.15	52.98	53.85	56.45	55.93	55.47	55.28	56.97	57.17	57.09
130	52.94	53.14	53.17	55.23	55.52	55.65	57.57	53.45	53.3	55.48	55.56	55.74	56.19	58.72
160	53.18	56.17	55.56	55.77	57.3	57.32	58.19	58.02	58.08	59.35	59.48	59.57	60.37	60.11
200	53.58	54.78	56.42	56.7	57.69	57.68	58.77	58.42	58.35	58.95	59.02	59.56	59.5	59.67
250	55.34	56.49	57.88	58.48	58.56	58.85	58.97	58.92	60.09	60.34	61.53	61.6	62.34	62.45
320	54.44	55.17	55.9	56.78	57.99	58.99	59.29	58.97	59.19	59.8	59.83	60.47	60.8	60.98
400	54.43	56.47	57.56	58.06	58.42	58.77	59.12	59.92	60.26	60.84	61.33	61.18	61.09	61.76
500	54.43	55.79	56.87	57.92	58.6	59.12	59.37	59.23	59.64	60.15	60.65	61.02	61.04	61.02
630	54.3	56.57	57.59	58.11	58.68	58.94	59.49	59.96	60.11	60.38	61.01	61.41	61.55	61.46
800	55.24	57.5	58.34	58.79	59.07	59.56	60.02	60	60.53	60.74	61.09	61.54	61.86	61.68
1000	54.33	56.9	58.04	58.59	59.14	59.59	60.04	60.33	60.53	60.8	61.07	61.47	61.7	61.58
1300	54.08	56.56	57.49	58.36	58.82	59.22	59.48	60.4	60.62	61.05	61.41	61.58	61.76	61.77
1600	52.95	55.35	56.37	56.96	57.38	57.83	58.41	59.75	60.08	60.34	60.65	61.06	61.37	61.43
2000	50.43	52.87	54.21	54.98	55.48	56.1	56.79	58.94	59.18	59.18	59.37	59.74	60.19	60.34
2500	47.45	49.97	51.38	52.29	53.02	53.54	54.15	57.39	57.66	57.56	57.65	58.16	58.52	58.77
3200	43.82	46.45	48.1	49.12	49.77	50.35	50.87	54.55	54.86	55.07	55.22	55.51	55.42	54.95
4000	38.1	41.17	42.95	44.11	44.59	45.45	46.81	51.47	51.75	51.79	51.73	51.74	51.2	49.87
5000	29.83	33.34	35.5	36.6	37.56	38.57	39.81	47.01	47.1	47.02	46.77	46.48	45.53	43.92
6300	13.2	21.35	24.9	26.77	27.81	29.15	31.25	40.57	40.9	40.68	40.14	39.7	38.58	36.34
8000	0	0	0	0	0	0	2.81	31.82	31.83	31.83	31.32	30.44	28.37	25.15
10000	0	0	0	0	0	0	0	10.18	9.47	7.91	0	0	0	0
OASPL	65.51	67.38	68.39	69.04	69.59	69.95	70.57	71.01	71.26	71.71	72.05	72.38	72.66	72.77
PNL	74.36	76.62	77.76	78.47	79.02	79.53	80.21	80.78	81.04	81.24	81.41	81.78	81.96	82

distance: (	1831.16	1956.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	
frequency	125	130	135	140	145	150	155	160	165	PWL
80	58.89	59.49	59.21	58.98	58.63	58.29	57.73	56.92	55.97	122.21
100	56.88	56.74	59.48	60.01	60.42	60.51	60.12	59.18	57.64	123.24
130	58.9	59	58.99	59.18	60.68	60.77	60.19	58.92	56.94	123.42
160	60.05	60	60.86	60.53	59.81	58.97	57.66	56.46	53.93	123.87
200	60.52	60.43	60.12	60.73	60.17	59.31	57.82	55.93	52.31	123.89
250	63.12	62.95	62.81	61.82	60.64	59.39	57.12	53.81	49.46	125.27
320	61.18	60.83	60.38	59.92	59.32	57.49	55.03	51.89	47.12	123.78
400	61.78	61.41	60.44	59.59	58.02	56.29	53.46	49.45	44.42	124.07
500	60.89	60.24	59.24	57.63	56.07	54	51.17	47.39	41.61	123.28
630	60.84	59.56	58.15	56.89	55.12	52.69	49.68	45.46	39.66	123.3
800	61.02	59.78	58.15	56.16	53.87	51.26	47.95	43.48	37.53	123.48
1000	60.82	59.04	56.71	54.94	52.87	50.06	46.39	41.96	35.85	123.23
1300	60.93	59.24	57.04	54.52	52.03	49.2	45.58	40.8	34.07	123.21
1600	60.79	58.6	55.71	53.33	50.95	48.02	44.37	39.44	32.39	122.47
2000	59.58	57.58	54.99	52.31	49.72	46.64	42.45	37.09	29.68	121.19
2500	57.91	55.63	52.73	50.06	47.18	43.48	38.77	32.98	24.84	119.31
3200	53.88	51.88	49.1	46.08	42.69	38.6	33.44	26.91	13.97	116.11
4000	48.26	48.29	43.71	40.82	37.03	32.09	25.52	12.52	0	111.91
5000	42.09	39.87	36.4	32.54	28.06	21.11	0	0	0	106.42
6300	33.97	31.08	27.13	21.54	5.98	0	0	0	0	99.42
8000	20.9	12.57	0	0	0	0	0	0	0	89.73
10000	0	0	0	0	0	0	0	0	0	67.74
OASPL	72.54	71.83	71.13	70.4	69.69	68.88	67.27	65.53	63.21	135.37
PNL	81.33	79.72	77.8	75.85	73.91	71.83	68.97	65.49	60.65	81.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg	463
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1007.46
m01	0.20048
pamb	14.1288
tamb	499.332
rhumid	85.34
winds1	0
nprc	1.742
nprb	1.825
ptc	24.6124
ptb	25.7851
wactc	3.377
wactb	17.891
ttc	1402.36
ttb	503.721
ptmix	25.5989
ttmix	846.41
mixpnd	0.80822
grsvolp	21426.7
bedchan	(26)
bkgnd	458
escdate	05.Dec.96
esctime	18:00:52
DADSdate	97.08.18
DADStime	18:00:52
bichdate	05.Dec.96
bichtime	18:00:52

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 11:25:32 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.24	78.72	77.31	77.8	78.02	77.94	77.77	77.78	78.14	79.02	80.55	82.25	82.74	82.72	83.08	83.92	85.18	86.72	88.45	90.25	92.07	94	96.44	127.52
100	79.49	79.57	79.78	80.06	80.18	80.03	80	80.45	81.18	81.55	81.54	81.58	82.32	83.53	84.8	86.03	87.29	88.65	90.15	91.69	93.22	94.82	96.84	128.84
130	78.41	78.74	78.87	78.88	78.88	78.93	79.04	79.24	79.53	79.92	80.43	81.08	81.84	82.8	83.96	85.32	86.9	88.69	90.66	92.58	94.24	95.75	97.32	129.05
160	79.69	80.29	80.67	80.91	81.09	80.81	80.49	81.38	81.85	82.05	82.45	83.23	84.24	85.35	86.48	87.48	88.78	90.41	91.3	92.12	93.1	93.95	94.51	129.36
200	80.2	80.86	80.88	81.09	81.43	81.92	82.48	83.02	83.43	83.63	83.61	83.58	84.07	85.52	87.12	88.41	89.38	90.22	91.11	92.05	92.75	92.8	92.27	129.45
250	81.22	81.3	81.47	81.74	81.99	82.23	82.88	83.24	83.83	84.37	84.78	84.95	85.61	87.52	88.2	88.8	89.84	91.3	92.47	92.83	92.38	91.7	91.13	130.04
320	82.15	82.39	82.41	82.46	82.75	83.25	83.75	84.13	84.35	84.58	84.83	85.46	86.77	87.31	88.26	89.23	89.95	90.89	91.14	90.84	90.23	89.15	87.59	129.87
400	81.66	82.02	82.36	82.7	83.1	83.58	84.17	84.83	85.27	85.35	85.97	87.32	87.96	87.9	88.47	89.37	89.91	90.01	90.19	89.79	88.76	87.64	86.68	129.71
500	82.85	83.14	83.13	83.2	83.55	84.12	84.51	84.9	85.21	85.59	85.98	86.58	87.13	87.98	88.81	89.16	89.39	89.81	89.56	88.78	87.81	86.66	85.28	129.52
630	82.3	84.49	84.21	84.38	84.92	84.98	84.89	85.28	85.85	86.4	86.63	87.53	88.52	88.63	89.27	89.44	89.18	88.98	88.79	88.35	87.51	86.26	84.67	129.92
800	83.88	85.56	85.22	84.9	85.18	85.71	86.21	86.43	86.81	87.24	87.89	88.54	89.08	89.87	90.28	89.72	88.99	88.74	88.35	87.52	86.27	84.81	83.48	130.46
1000	84.98	86.41	86.23	86.25	86.38	86.52	86.96	87.3	87.58	88.12	88.65	89.35	90.1	90.4	90.18	89.56	88.89	88.32	87.62	86.74	85.68	84.51	83.38	130.94
1300	85.86	86.85	86.93	87.05	87.19	87.42	87.86	88.28	88.51	88.75	89.28	90.1	91.08	91.81	91.12	89.82	88.91	88.29	87.92	87.2	85.93	84.58	83.51	131.88
1600	86.82	86.91	86.85	87.22	87.72	88.1	88.29	88.43	88.62	89.08	89.76	90.44	91.38	92.21	91.64	90.23	88.93	88.13	87.83	87.19	85.98	84.82	83.97	131.98
2000	85.24	86.43	86.86	87.27	87.88	88	88.29	88.67	88.89	89.18	89.95	90.8	91.61	92.19	91.66	90.34	89.14	88.59	88.41	87.72	86.43	85.35	84.76	132.1
2500	84.1	85.27	85.8	86.37	86.96	87.39	87.85	88.39	88.77	89.12	89.89	90.74	91.63	92.2	92.02	90.82	89.14	88.78	88.8	88.19	87.02	86.01	85.51	132
3200	82.55	83.75	84.63	85.41	85.81	86.11	86.81	87.18	87.55	87.99	88.72	89.78	90.9	91.37	91.24	90	88.58	88.28	88.08	87.23	86	85.29	85.22	131.07
4000	81.52	83.11	83.82	84.34	84.7	84.95	85.47	85.81	86.32	86.78	87.51	88.49	89.07	89.01	89.1	88.48	87.3	86.56	85.91	84.86	83.72	83.29	83.5	129.5
5000	79.84	81.51	82.51	83.03	83.15	83.53	84.29	84.53	84.62	84.95	85.85	86.89	87.01	86.47	86.48	85.86	84.76	84.24	83.51	82.38	81.23	80.78	80.89	127.58
6300	78.51	80.08	81.03	81.71	81.9	82.1	83.07	83.57	83.79	83.98	84.44	84.92	84.94	84.55	84.43	83.58	82.08	81.11	80.47	79.62	78.81	78.03	77.82	125.85
8000	77.63	79.15	80.07	80.83	81.08	81.1	82.21	82.52	82.68	82.74	83.29	83.81	83.49	82.58	82.07	81.3	80.17	79.28	78.39	77.28	76.1	75.3	75	124.48
10000	75.63	78.41	77.05	78.14	78.98	79.24	79.23	79.68	79.83	79.68	80.31	79.79	79.31	78.91	78.8	78.24	76.97	75.84	74.68	73.48	72	70.97	70.73	121.37
OASPL	95.78	96.77	96.99	97.3	97.64	97.93	98.36	98.73	99.08	99.42	100.01	100.79	101.55	102.08	102.14	101.75	101.54	101.84	102.23	102.46	102.65	103.04	103.89	143.18

NASA Lewis Allison AST Jet Noise Test 1996

rdg 463
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NO20
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 1007.46
m01 0.20048
pamb 14.1268
tamb 499.332
rhumid 65.34
winds1 0
nprc 1.742
nprb 1.825
ptc 24.6124
ptb 25.7851
wactc 3.377
wactb 17.891
ttc 1402.36
ttb 503.721
ptmix 25.5989
ttmix 646.41
mlapnd 0.80822
gravlxp 21426.7
badchan {26}
bkgnd 458
escdate 05.Dec.96
esctime 18:00:52
DADSdate 97.08.18
DADStime 18:00:52
btchdate 05.Dec.96
btchtime 18:00:52
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:25:41 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	55.15	56.86	56.87	56.56	56.24	57.97	60.34	57.74	56.26	60.19	60.44	60.84	61.01	61.09	61.09	63.69	63.64	64.01	64.3	64.63	64.65	64.28	63.53	127.8
100	57.13	56.46	56.66	56.83	56.9	58.1	59.24	60.38	60.21	59.75	59.26	61.45	61.66	61.67	61.45	61.24	63.94	64.56	66.29	65.69	65.63	65.22	64.6	128.4
130	57.61	57.76	57.81	59.67	59.7	59.39	60.43	59.13	59.14	60.56	60.54	60.69	61.17	63.47	63.66	63.96	64.45	65.1	66.74	66.49	66	64.94	63.2	128.9
160	57.21	59.67	60.01	60.07	61.33	61.33	62.39	61.2	61.25	62.51	62.52	62.76	63.63	64.03	64.74	65.32	66.09	65.9	65.28	64.66	65.04	63.33	60.3	128.91
200	58.64	58.92	60.2	60.23	61.18	61.26	62.48	62.74	62.6	62.9	62.45	63	63.21	64.05	65.31	65.22	65.45	66.87	67.14	66.49	64.41	62.47	59.26	129.23
250	59.34	60.2	61.27	62.05	62.36	63.01	63.44	62.81	64.04	64.29	65.1	64.83	65.55	66.07	66.88	66.8	67.3	67.27	66.36	65.06	62.66	59.19	54.59	129.65
320	59.53	59.78	60.21	60.75	61.61	62.36	62.83	63.52	63.61	63.62	63.17	64.8	65.46	65.03	65.19	65.31	65.64	65.04	64.32	62.3	59.77	56.67	52.62	128.23
400	58.61	60.1	60.87	61.4	61.86	62.59	63.26	63.81	64.38	64.45	64.96	65.54	65.69	65.85	65.76	65.94	65.41	64.87	63.37	61.49	58.59	54.94	50.02	128.42
500	58.96	60.06	60.95	61.61	62.57	62.91	63.1	63.64	63.9	64.33	64.54	64.76	65.27	65.29	65.44	65.05	64.24	62.77	61.44	59.46	56.62	52.88	47.81	127.7
630	58.53	61.25	61.47	61.55	62.61	63.3	64.02	63.6	64.19	64.7	64.87	65.52	65.82	66.11	65.93	64.93	63.54	62.36	60.73	58.27	55.11	50.55	44.81	127.85
800	59.59	62.04	62.26	62.64	63.06	63.76	64.36	64.32	64.82	64.95	65.44	65.99	66.13	66.36	65.94	64.57	62.99	61.4	59.31	56.57	53.04	48.64	42.8	127.96
1000	59.83	61.86	62.51	62.99	63.41	63.82	64.68	64.73	65.05	65.49	65.78	66.14	66.66	66.69	65.63	63.89	62.05	60.4	58.34	55.57	51.86	47.37	41.3	128.01
1300	59.76	61.3	61.93	62.83	63.65	64.24	64.53	65.2	65.42	65.62	65.94	66.41	67.16	67.1	65.86	63.82	61.6	59.25	57.46	54.95	51.05	45.99	39.4	128.1
1600	59.44	60.56	61.32	62.22	63	63.58	64.03	64.83	64.99	66.27	65.78	66.26	66.69	67.06	65.42	62.92	60.67	58.82	56.82	53.92	49.8	44.6	37.72	127.66
2000	58.44	58.43	59.55	60.41	61.28	62.02	62.52	64.36	64.54	64.58	65.14	65.71	65.94	65.77	64.77	62.61	60.17	58.15	56.25	53.14	48.66	43.17	35.81	126.75
2500	53.1	55.17	56.65	58.02	58.91	59.32	60.14	63.13	63.42	63.63	64.03	64.42	64.85	64.76	63.74	61.2	58.26	56.29	54.14	50.61	45.7	39.95	32.08	125.29
3200	49.2	51.5	53.17	54.5	55.39	55.91	56.5	60.48	60.69	60.86	61.24	61.81	62.17	61.47	60.47	58.2	55.26	52.72	49.78	45.69	40.42	34	24.85	122.27
4000	43.53	46.55	48.39	48.54	50.22	51	52.01	56.89	57.25	57.35	57.65	58.11	57.72	56.32	55.19	53.22	50.31	47.42	43.69	39	32.61	24.69	1.23	117.96
5000	35.13	36.47	40.68	42.34	43.31	44.14	45.26	52.25	52.09	52.2	52.46	52.64	51.85	50.37	48.85	46.16	42.53	39.05	34.79	29.18	20.72	0	0	112.19
6300	23.11	27.56	30.56	32.66	33.9	34.59	36.32	45.91	46.04	45.8	45.79	45.46	44.22	42.12	40.27	37.29	33.02	28.5	22.29	0	0	0	0	104.94
8000	0	0	-2.68	10.96	16.85	18.36	20.12	36.74	36.75	36.41	36.16	35.65	33.73	30.87	27.75	23.45	15.41	0	0	0	0	0	0	94.85
10000	0	0	0	0	0	0	0	20.74	20.56	16.92	16.47	13.86	-1.99	0	0	0	0	0	0	0	0	0	0	76.86
OASPL	70.46	71.97	72.66	73.25	73.69	74.34	75.03	75.51	75.79	76.14	76.43	76.94	77.37	77.52	77.21	76.55	76.13	75.6	75.38	74.51	73.33	71.62	69.94	140.3
PNL	80.11	81.62	82.56	83.4	84.18	84.76	85.41	85.99	86.25	86.52	86.84	87.29	87.62	87.51	86.77	85.06	83.18	81.71	80.11	78.1	75.36	72.15	67.82	87.25

NASA Lewis Allison AST Jet Noise Test 1996

rdg	460
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amix	35.02
amb	78.39
scale	4
vid	815.15
m01	0.30032
pamb	14.082
tamb	499.586
rhumid	63.45
winds1	0
nprc	1.39
nprb	1.444
ptc	19.574
ptb	20.3344
wactc	2.711
wactb	13.19
ttc	1168.64
ttb	497.717
ptmix	20.2048
ttmix	612.104
mixpnd	0.672018
grsvixp	12961.7
bedchan	(26)
bkgnd	459
escdate	05.Dec.96
esctime	17:34:02
DADSdate	05.Dec.96
DADStime	17:34:02
btchdate	05.Dec.96
btchtime	17:34:02

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:36:23 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	67.57	67.89	68.4	69.26	70.08	70.87	71.22	71.25	70.89	70.34	70.36	70.88	71.83	72.43	72.74	72.75	72.99	73.6	74.7	76.51	113.42
100	0	63.84	64.6	68.78	69.57	69.98	70.59	71.13	71.36	71.38	71.23	70.91	70.42	69.87	69.6	69.94	70.86	71.47	72.06	73.19	74.28	75.18	76.83	113.6
130	62.64	67.75	67.65	68.25	68.87	69.01	68.89	68.77	68.69	68.69	68.78	68.96	69.23	69.57	70.02	70.58	71.23	71.97	72.82	73.78	74.8	75.93	77.21	113.14
160	61.36	66.52	66.81	67.33	68.06	68.98	69.38	69.53	69.84	70.01	69.77	70.3	70.07	70.58	71.72	72.54	72.8	72.9	73.31	74.18	74.78	74.79	75.29	113.65
200	68.26	68.79	69.31	69.96	70.45	70.43	70.26	70.3	70.62	71.13	71.69	72.13	72.39	72.57	72.83	73.31	73.9	74.19	74.1	74.08	74.08	74.21	74.67	114.61
250	69.97	71.68	72.56	72.81	72.95	72.88	72.81	72.84	73.02	73.4	73.97	74.67	75.41	76.21	76.94	77.46	77.7	77.83	77.29	76.74	76.06	75.52	75.31	117.78
320	70.7	73	73.7	73.54	73.37	73.3	73.25	73.17	73.39	74	74.7	75.3	76.09	76.86	77.28	77.39	77.35	77.13	76.63	75.78	74.78	73.86	73.37	117.95
400	71.22	73.1	73.62	73.49	73.32	73.86	74.69	75.09	74.96	74.95	75.62	76.54	76.5	76.73	76.6	76.05	75.76	75.42	74.85	74.18	73.51	73	72.55	117.94
500	71.97	74.2	74.29	74.14	74.32	74.59	74.94	75.04	75.16	75.54	75.73	76.21	76.46	76.74	77.06	77.24	77.13	76.75	76.08	75.11	73.99	72.97	72.25	118.44
630	71.86	73.9	74.43	74.49	74.59	74.9	75.25	75.5	75.69	75.85	76.01	76.11	76.33	76.56	76.48	76.03	75.35	74.58	73.75	73.07	72.36	71.47	70.92	118.12
800	73.7	75.87	76.04	75.76	75.69	75.95	76.22	76.41	76.55	76.71	76.91	77.11	77.17	77.34	77.43	77.09	76.19	75.02	73.74	72.47	71.46	70.9	70.58	119.08
1000	73.62	75.52	75.8	75.67	75.63	75.77	75.95	76.42	76.8	76.8	76.7	76.71	77.12	77.21	77.04	76.66	75.96	74.96	73.85	72.71	71.65	70.77	70.37	118.92
1300	73.89	75.59	75.72	75.71	75.86	76.13	76.33	76.41	76.4	76.38	76.36	76.48	76.85	77.33	77.53	77.1	75.94	74.75	73.68	72.55	71.53	70.82	70.61	118.92
1600	72.46	74.42	75.04	74.98	75.2	75.58	75.67	75.58	75.48	75.49	75.63	76.2	76.74	77.03	77.12	76.94	76.15	75	73.69	72.4	71.41	70.89	70.96	118.42
2000	70.86	73.59	73.91	74.01	74.18	74.38	74.55	74.7	74.89	75.09	75.35	75.72	76.08	76.4	76.51	76.17	75.27	74.25	73.29	72.22	71.23	70.64	70.79	117.8
2500	71.46	72.73	73.06	72.98	73.13	73.33	73.43	73.46	73.72	73.87	74.19	74.48	74.7	75.13	75.39	75.12	74.32	73.36	72.36	71.4	70.58	70.06	70.22	116.61
3200	71.18	72.32	72.62	72.78	72.85	72.84	72.92	72.87	72.97	73.21	73.29	73.6	73.76	73.68	73.62	73.44	72.68	71.74	70.8	69.89	69.08	68.58	68.91	115.66
4000	70.03	71.19	71.91	72.48	72.76	72.58	72.42	72.35	72.27	72.32	72.52	72.62	72.65	71.82	71.33	71.08	70.49	69.57	68.56	67.7	66.89	66.28	66.54	114.63
5000	69.25	70.24	71.17	71.46	71.61	71.67	71.87	71.69	71.51	71.57	71.76	71.86	71.48	70.68	69.99	69.46	68.68	67.7	66.64	65.68	64.84	64.29	64.67	113.63
6300	61.53	69.67	71.04	71.16	71.44	71.42	71.71	71.88	71.81	71.6	71.3	71.16	70.86	70.24	69.48	68.57	67.33	66.13	65.09	64.24	63.5	63.04	63.43	114.37
8000	67.05	70.56	71.85	71.62	71.76	71.75	71.77	71.69	71.58	71.55	71.51	71.48	70.64	69.9	68.89	67.82	66.62	65.52	64.54	63.66	62.87	62.35	62.62	116.46
10000	60.07	69.44	70.28	70.32	71	71.37	70.08	70.03	69.84	69.61	69.48	68.78	68.16	67.58	66.96	66.18	65.08	63.75	62.44	61.39	60.45	59.66	58.74	112.86
OASPL	90.04	85.76	86.22	86.35	86.49	86.69	86.86	86.99	87.11	87.25	87.43	87.72	87.83	88.15	88.27	88.15	87.75	87.22	86.63	86.11	85.72	85.57	86.03	130.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	460
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nazrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.15
m01	0.30032
pamb	14.082
tamb	499.586
rhumid	83.45
winds1	0
nprc	1.39
nprb	1.444
ptc	19.574
ptb	20.3344
wactc	2.711
wactb	13.19
ttc	1168.64
ttb	497.717
ptmix	20.2048
ttmix	612.104
mixpnd	0.672018
gravixp	12961.7
badchan	(26)
bkgnd	459
escdate	05.Dec.96
esctime	17:34:02
DADSdate	05 Dec.96
DADStime	17:34:02
btchdate	05 Dec.96
btchtime	17:34:02

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 05:36:29 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (f	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	46.35	48	47.53	46.98	50.03	50.39	49.78	49.78	49.92	50.88	49.08	47.25	46.18	45.74	48.06	48.03	46.65	44.8	43.22	46.44	112.64
80	0	46.97	46.15	45.57	49.04	49	49.3	51.06	50.53	50.15	50.79	49.7	47.93	48.8	48.38	47.98	46.8	48.27	47.57	46.96	46.07	44.6	43.12	113.19
100	40.67	45.11	45.33	46.45	46.13	47.97	47.24	48.85	48.37	49.13	48.57	49.8	48.96	48.04	49.65	49.38	48.78	49.09	47.94	47.59	47.04	46.22	45	113.1
130	42.22	44.87	46.32	47.57	49.19	50.02	49.32	49.35	49.05	48.67	47.44	49.14	48.39	49.68	49.33	50.69	49.91	48.97	48.37	47.91	46.7	44.53	42.32	113.44
160	46.3	48.41	48.91	49.71	50.46	51.6	52.87	50.02	50.61	50.54	51.37	52.11	51.9	53.31	53.22	54.11	53.42	53.65	49.05	47.62	45.82	43.82	42.78	115.93
200	48.51	50.69	52.72	53.33	53.44	53.28	52.94	52.41	53.28	54.08	54.8	54.87	55.54	56.01	56.05	55.24	54.42	52.7	52.11	50.11	48.39	45.71	42.52	118.1
250	48.27	50.35	51.11	51.42	51.75	52.32	53.8	52.57	52.5	52.74	52.97	53.36	53.6	53.74	53.48	52.68	51.78	50.46	51.22	48.87	46.34	43.18	39.63	118.47
320	47.93	51.04	51.82	52.02	51.98	52.83	53.39	54.17	54.34	54.08	54.56	54.85	54.69	54.22	53.77	53.4	52.68	51.59	48.99	46.82	44.65	41.74	38.36	117.06
400	48.15	50.67	51.55	52.04	52.88	53.32	53.66	53.78	54	54.23	54.42	54.52	54.49	54.14	53.54	52.25	50.61	48.68	49.55	47.2	44.14	40.69	36.45	116.75
500	47.93	51.01	51.99	52.41	52.74	53.43	54.08	53.65	54.25	54.57	54.61	54.53	54.2	53.72	53.07	52.15	50.37	48.44	46.88	44.41	41.74	38.27	34.12	116.6
630	48.77	51.51	52.08	52.38	52.86	52.93	53.29	54.33	54.19	54.19	54.12	54.07	53.86	53.9	53.33	51.91	50.11	47.77	45.91	42.99	39.78	36.39	31.79	116.39
800	47.98	50.61	51.78	52.05	52.47	52.96	53.21	53.86	54.19	53.92	53.61	53.34	53.35	52.83	52.1	51.14	49.08	48.75	45.31	42.3	38.89	34.85	29.94	115.87
1000	47.54	49.71	50.5	50.8	51.31	51.96	52.13	53.37	53.3	53.1	52.82	52.72	52.68	52.5	51.82	50.54	48.71	46.26	44.17	41.18	37.69	33.68	28.39	115.09
1300	45.14	47.78	48.87	49.37	49.89	50.04	50.32	51.98	51.74	51.59	51.52	51.66	51.56	51.21	50.66	49.42	47.25	44.69	43.37	40.02	36.32	31.88	26.54	113.87
1600	49.46	45.95	46.73	47.26	47.71	48.06	48.26	50.42	50.46	50.46	50.33	50.08	49.89	49.42	48.68	47.38	45.25	42.82	41.89	38.68	34.85	30.22	24.12	112.09
2000	41.29	43.53	44.42	44.77	45.56	45.86	46.13	48.19	48.3	48.26	48.12	47.91	47.46	46.98	46.1	44.76	42.6	39.87	39.92	36.49	32.37	27.38	20.66	109.66
2500	37.91	39.93	41.34	42.58	43.27	43.38	43.45	46.15	46.12	46.07	45.88	45.57	44.99	43.72	42.23	40.8	38.33	35.44	36.7	32.96	28.49	22.64	4.04	106.94
3200	32.43	35.05	36.8	37.92	38.56	39.06	39.48	43.42	43.26	43.07	42.82	42.34	41.44	39.73	37.79	35.76	33.27	30.07	31.96	27.93	22.61	7.41	0	103.27
4000	24.7	27.55	29.82	31.28	32.41	33.02	33.62	39.33	39.04	38.61	38.4	37.81	36.8	34.9	32.82	30.39	27.02	22.25	26.08	20.08	0	0	0	98.37
5000	27.41	8.42	18.97	21.11	23.18	24.1	25.2	33.87	33.8	33.57	32.99	32.24	30.84	28.69	25.83	21.53	10.89	0	10.78	0	0	0	0	92.3
6300	15.12	0	0	0	0	0	0	25.23	24.98	24.88	23.59	22.01	19.08	8.55	0	0	0	0	0	0	0	0	0	82.21
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	58.67	61.03	61.93	62.48	63.02	63.5	63.85	64.35	64.48	64.51	64.81	64.71	64.63	64.54	64.13	63.47	62.27	61.21	59.98	58.16	56.25	53.98	52.48	127.36
PNL	69.64	69.6	70.61	71.29	71.83	72.29	72.57	72.89	72.94	72.92	72.85	72.75	72.46	71.89	71.25	70.12	68.21	66.39	64.15	61.41	58.02	53.91	48.72	71.28

NASA Lewis Allison AST Jet Noise Test 1996

rdg	461
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
enoz	41.226
emixc	35.02
emixb	78.39
scale	4
vid	946.09
m01	0.3004
pamb	14.06
tamb	499.601
rhumid	65.38
winds1	0
nprc	1.54
nprb	1.614
ptc	21.6832
ptb	22.7251
wactc	2.969
wactb	15.626
ttc	1302.99
ttb	498.065
ptmix	22.5586
ttmix	626.601
mixpnd	0.77089
grsvlxp	17592.5
badchan	(25)
bkgnd	459
escdate	05.Dec.96
esctime	17:39:58
DADSdate	05.Dec.96
DADStime	17:39:58
btchdate	05.Dec.96
btchtime	17:39:58

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:38:37 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	68.33	69.6	69.16	69.25	70.64	72.14	72.52	71.65	70.7	70.74	71.96	73.58
100	70.76	71.48	72.02	72.42	72.72	72.95	73.12	73.26	73.35	73.43	73.55	73.8
130	71.35	72.11	72.3	72.17	71.91	71.67	71.51	71.49	71.64	72	72.54	73.15
160	72.34	72.9	72.92	72.86	72.91	73.09	73.37	73.75	74.17	74.61	75.06	75.53
200	73.41	74.08	74.46	74.68	74.79	74.85	74.89	74.84	75.02	75.14	75.39	75.93
250	74.83	75.75	76.37	76.71	76.79	76.73	76.66	76.66	76.84	77.18	77.71	78.36
320	76	77.24	77.58	77.35	77.08	77.36	77.32	77.05	77.26	77.65	78.05	78.65
400	75.46	76.54	76.9	76.97	77	77.26	77.86	78.52	78.81	79.04	79.39	79.64
500	76.56	78.18	78.6	78.65	78.44	78.22	78.25	78.29	78.42	78.88	79.31	79.76
630	76.71	78.63	79.27	79.3	79.15	79.02	79.09	79.29	79.48	79.74	80.09	80.45
800	78.66	80.57	80.61	80.41	80.22	80.18	80.2	80.3	80.6	81.13	81.75	82.2
1000	79.25	81.07	81.2	80.93	80.72	80.68	80.82	81.09	81.35	81.68	81.99	81.95
1300	79.29	80.91	81.19	81.17	81.22	81.26	81.46	81.49	81.6	81.92	82.41	82.79
1600	78.75	80.41	81.14	81.4	81.36	81.36	81.48	81.54	81.62	81.77	82.07	82.64
2000	78.06	79.84	80.57	80.8	80.68	80.7	80.86	80.99	81.28	81.65	81.99	82.45
2500	77.06	78.4	79	79.3	79.44	79.6	79.95	80.14	80.19	80.54	81.07	81.84
3200	76.41	77.32	78.04	78.47	78.39	78.27	78.64	78.88	78.86	79.21	79.86	80.55
4000	75.53	76.53	77.28	77.58	77.38	77.25	77.45	77.82	77.67	77.89	78.49	79.02
5000	74.22	75.23	76.29	76.73	76.02	75.97	76.53	76.68	76.45	76.84	77.21	77.52
6300	73.71	74.37	75.46	76.14	75.38	75.07	75.45	75.77	75.81	75.8	75.87	76.01
8000	73.39	74.07	75.17	76.11	74.91	74.39	75.07	75.25	75.03	74.94	75.13	75.43
10000	72.55	72.32	73.05	74.34	73.58	72.85	72.69	72.87	72.42	72.36	72.48	72.01
OASPL	89.4	90.8	91.29	91.44	91.29	91.28	91.48	91.6	91.73	92.02	92.45	92.89

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.89	75.43	75.45	75.37	75.42	75.83	76.8	77.69	79.07	80.9	83.68	117.19
100	74.27	75.02	75.97	76.99	77.93	78.72	79.4	80.12	81.02	82.33	84.49	118.78
130	73.7	74.13	74.55	75.1	75.85	76.86	78.03	79.27	80.56	82.06	83.97	117.78
160	76	76.47	77.01	77.71	78.63	79.78	81	82.11	83.03	83.77	84.25	119.96
200	76.61	77.27	77.85	78.38	78.87	79.32	79.79	80.33	80.9	81.53	82.16	119.86
250	79.07	79.79	80.44	80.95	81.27	81.42	81.49	81.58	81.72	81.94	82.1	121.77
320	79.63	80.51	81.07	81.39	81.56	81.63	81.59	81.4	81.06	80.72	80.28	122.1
400	80.24	80.48	80.6	80.59	80.38	79.95	79.54	79.34	79.21	79.08	79	121.89
500	80.27	80.71	80.97	81	80.79	80.35	79.67	78.82	78.05	77.56	77.4	122.2
630	80.84	81.21	81.39	81.26	80.84	80.15	79.28	78.36	77.52	76.92	76.77	122.68
800	82.54	82.82	82.67	81.93	80.96	79.9	78.81	77.75	76.93	76.5	76.53	123.81
1000	82.43	82.87	82.99	82.54	81.36	79.86	78.5	77.38	76.52	75.98	76.09	124.14
1300	83.19	83.56	83.7	83.22	81.86	80.36	79.06	78.01	77.16	76.64	76.61	124.63
1600	83.54	83.99	83.9	83.37	82.12	80.67	79.32	78.28	77.47	76.77	76.58	124.7
2000	83.06	83.53	83.71	83.36	82.23	80.67	79.2	78.1	77.26	76.69	76.88	124.36
2500	82.37	83.03	83.18	82.71	81.67	80.33	79.01	77.95	77.09	76.43	76.47	123.52
3200	81.21	81.35	81.51	81.55	80.53	79.24	78.11	77.16	76.34	75.74	75.86	122.3
4000	79.27	79.14	79.03	78.89	78.23	77.21	76.06	75.11	74.27	73.71	73.99	120.68
5000	77.5	76.86	76.5	76.31	75.25	74.19	73.33	72.49	71.73	71.33	71.82	119.05
6300	76.11	75.71	75.29	74.78	73.54	72.33	71.34	70.4	69.61	69.24	69.93	117.95
8000	75.53	74.9	74.08	73.28	72.1	70.96	70.05	68.18	68.48	68.17	68.79	117.28
10000	72.44	72.25	71.72	71.16	70.15	68.74	67.38	66.44	65.62	64.88	65.19	114.99
OASPL	93.43	93.6	93.94	93.78	93.16	92.51	92.05	91.84	91.87	92.2	93.04	135.19

NASA Lewis Allison AST Jet Noise Test 1996

rdg	461
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	948.09
m01	0.3004
pamb	14.08
tamb	499.601
rhumid	65.38
winds1	0
nprc	1.54
nprb	1.614
ptc	21.6832
ptb	22.7251
wactc	2.989
wactb	15.626
ttc	1302.99
ttb	498.085
ptmix	22.5588
ttmix	626.601
mixpnd	0.77089
grsvkp	17582.5
badchan	(25)
bkgnd	459
escdate	05.Dec.96
esctime	17:39:58
DADSdate	05.Dec.96
DADStime	17:39:58
btchdate	05.Dec.96
btchtime	17:39:58

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:38:43 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (	1831.16	1732.05	1655.07	1598.27	1562.91	1523.14	1505.73	1500	1505.73	1523.14	1562.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	47.68	48.98	49.67	52.57	51.77	51.38	51.18	51.61	53.3	53.05	53.31	53.62
80	47.2	50.4	50.82	49.85	51.63	51.16	51.95	53.18	51.91	51.2	52.77	52.29
100	50.12	50.42	50.57	51.15	50.54	52.18	51.67	51.37	51.27	52.48	52.28	54.14
130	50.47	51.45	52.7	52.83	53.72	54.56	53.97	53.57	53.21	54.22	53.98	54.5
160	51.22	52.68	52.92	53.95	54.79	55.71	56.6	54.66	55.2	54.84	55.49	56.2
200	53.14	54.31	55.77	56.59	57	57.26	56.99	58.25	57.1	57.95	58.62	58.67
250	53.19	54.71	55.18	54.88	55.29	55.88	56.72	56.45	56.13	56.12	56.28	56.78
320	52.1	54.4	55.36	56.25	56.52	56.88	56.9	57.61	58.06	57.80	57.78	57.89
400	52.83	55.07	56.13	56.49	56.69	56.83	57.22	57.03	57.32	57.79	58.32	58.38
500	52.74	55.49	56.31	56.8	57.06	57.65	57.99	57.62	57.99	58.46	58.89	59.19
630	54	56.6	57.28	57.35	57.59	57.77	58.08	58.2	58.22	58.5	58.73	58.94
800	53.58	56.24	57.08	57.47	57.68	57.89	58.3	58.53	58.87	59.05	59.35	59.16
1000	52.98	55.17	56.28	56.9	57.29	57.67	57.82	58.44	58.52	58.69	58.83	58.95
1300	51.62	53.93	55.25	55.97	56.17	56.41	56.63	57.94	57.97	57.97	58.08	58.26
1600	49.4	51.87	53.12	53.8	54.14	54.39	54.73	56.7	56.85	56.92	56.99	57.1
2000	48.84	48.92	50.08	50.95	51.36	51.38	51.89	54.88	54.79	54.82	54.96	55.12
2500	43.21	45.21	46.71	47.74	48.14	48.29	48.58	52.17	51.98	52.07	52.33	52.29
3200	37.9	40.27	42.14	43.2	43.15	43.48	44.19	48.7	48.59	48.49	48.67	48.47
4000	29.82	32.5	34.87	36.36	36.58	36.86	37.86	44.35	43.94	43.78	43.68	43.14
5000	14.95	20.73	24.57	27.2	27.25	27.55	28.88	38.04	37.99	37.65	37.25	38.8
6300	0	0	0	0	0	0	0	29.33	29.03	26.46	27.78	26.87
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	63.8	65.88	66.79	67.32	67.64	68	68.26	68.62	68.81	69.01	69.28	69.48
PNL	72.95	75.18	76.38	77.07	77.35	77.65	77.97	78.29	78.34	78.44	78.61	78.73

distance (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	55.24	54.25	53.74	53.74	53.73	55.32	51.87	51.34	50.26	49.42	52.95	117.82
80	51.22	52.99	52.55	52.13	51.23	53.24	54.92	53.89	52.89	52.08	51.41	117.68
100	53.74	53.45	55.19	54.88	54.86	56	53.2	53.07	52.77	52.3	51.66	118.35
130	54.43	55.44	55.07	55.97	55.33	54.35	56.05	55.84	54.93	53.44	51.09	119.88
160	55.98	57.07	58.82	57.82	57.28	57.5	54.78	53.89	52.84	51.07	50.03	120.34
200	59.29	59.82	59.78	59.09	58.54	57.28	56.34	54.95	54.05	52.05	49.16	122.13
250	57.31	57.42	57.27	57.15	56.43	55.15	56.21	54.5	52.57	49.98	46.81	120.63
320	58.46	58.58	58.31	57.64	58.56	55.21	53.68	52	50.13	47.68	44.69	121.02
400	58.51	58.26	58.02	57.17	55.91	54.21	53.13	50.91	48.38	45.42	41.62	120.83
500	59.14	58.87	58.11	56.81	55	53.27	52.21	49.72	46.91	43.66	39.95	121.08
630	59.04	59.18	58.74	57.47	55.36	52.66	51	48.25	45.24	42.04	37.79	121.29
800	59.2	58.95	58.36	57.25	54.99	52.24	49.91	46.98	43.74	40.04	35.64	121.32
1000	59.21	59.21	58.42	56.97	54.77	52.02	49.48	46.64	43.36	38.45	34.3	121.04
1300	58.44	58.17	57.48	56.16	53.93	51.06	49.02	45.9	42.42	37.94	32.19	120.17
1600	57.08	57.02	56.5	55.07	52.83	49.71	47.86	44.57	40.83	36.2	30.2	118.79
2000	55.37	54.98	54.03	52.63	50.2	47.18	46.48	43.01	38.93	33.77	26.89	118.54
2500	52	51.09	50.01	48.88	46.17	43.09	43.88	40.17	35.73	30.06	22.14	113.31
3200	47.81	46.39	44.79	42.91	40.13	36.74	39.46	35.33	30.26	23.5	0	109.05
4000	42.22	40.6	38.88	36.85	33.37	29.39	32.89	28.26	21.58	0	0	103.59
5000	35.8	33.87	31.43	28.38	23.73	15.38	24.37	14.47	0	0	0	96.76
6300	25.25	21.99	15.94	0	0	0	0	0	0	0	0	86.6
8000	0	0	0	0	0	0	0	0	0	0	0	85.35
10000	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	69.66	68.68	69.3	68.59	67.32	66.3	65.27	63.89	62.48	60.78	59.59	132.3
PNL	78.83	78.54	77.83	76.75	74.72	72.43	69.9	67.1	64.4	61.12	57.09	77.23

NASA Lewis Allison AST Jet Noise Test 1996

rdg	462
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1002.73
m01	0.29976
pamb	14.0775
tamb	499.146
rhumid	65.76
winds1	0
nprc	1.74
nprb	1.824
ptc	24.4948
ptb	25.6774
wactc	3.364
wactb	17.893
ttc	1392.68
ttb	500.136
ptmix	25.4902
ttmix	641.416
mixpnd	0.807551
grsvixp	21315
badchan	(26)
bkgnd	459
escdate	05 Dec.96
esctime	17:47:15
DADSdate	97.08.25
DADStime	17:47:15
bichdate	05.Dec.96
bichtime	17:47:15

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 11:17:41 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	106	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.43	75.99	76.71	75.11	74.55	75.37	76.37	75.81	74.73	75.75	77.05	76.46	77.55	77.77	78.07	79.26	80.25	81.07	82.37	84.71	87.26	89.64	92.54	123.05
100	75.24	76.29	76.69	77.69	78.1	77.12	78.07	76.95	76.41	77.57	78.44	77.37	76.87	77.99	79.51	80.49	81.29	82.21	83.43	84.75	86.53	89.07	92.18	123.49
130	75.82	76.89	78.08	76.3	76.67	76.75	75.56	75.84	76.12	76.44	76.78	77.7	78.52	78.33	78.98	80.58	81.54	82.57	84.03	85.65	87.3	89.01	91.21	123.47
160	76.42	76.25	76.99	76.48	77.22	77.69	78.16	77.88	78.38	78.97	79.48	79.22	80.65	80.76	80.56	81.36	82.64	83.7	84.65	85.79	87.13	88.62	89.88	124.13
200	76.53	76.51	78.93	78.32	79.33	79.2	79.33	79.55	79.47	79.18	80.02	80.84	81.21	81.64	82.31	82.79	83.06	83.76	84.68	85.27	86.06	87.31	88.8	124.53
250	78.52	79.44	79.95	80.27	80.14	80.33	80.58	80.42	80.67	81.84	81.5	81.99	82.7	84.28	84.86	84.48	85.17	86.07	86.76	87.33	87.94	88.52	88.58	126.24
320	79.74	80.8	80.75	80.07	79.68	80.61	80.53	80.74	80.42	80.59	82.22	81.96	82.85	83.61	84.45	85.13	84.78	85.51	86.45	86.16	85.92	86.42	86.69	125.83
400	80.18	81.13	81.53	80.65	80.77	81.04	82.47	82.26	82.39	82.73	83.62	84	83.96	84.39	84.68	84.74	84.9	85.13	85.35	85.4	85.28	85.07	84.73	126.28
500	81.16	82.18	82.33	81.91	82.37	81.77	82.57	82.22	82.37	83	83.69	83.49	84.29	84.26	85	86.02	85.1	84.7	85.1	85.1	84.51	83.41	82.98	126.47
630	81.21	82.47	82.69	82.51	83.03	83	83.87	83.37	83.44	84.16	83.98	84.75	85.24	85.71	86.06	86.03	85.6	84.88	84.06	83.16	82.49	82.2	82.31	127
800	82.91	84.21	83.38	84.04	83.22	84.01	84.16	84.83	85.1	85.36	86.22	86.18	86.43	87.16	87.2	86.32	85.24	84.42	83.8	83.21	82.65	82.12	81.93	127.87
1000	83.68	85.63	84.77	85.71	85.12	85.33	85.02	85.17	85.96	86.4	86.77	87.12	87.47	87.63	87.06	86.01	86.25	84.34	83.39	82.84	82.42	81.94	81.5	128.66
1300	84.56	85.9	85.72	85.87	85.96	86.15	86.62	87	87	87.1	87.68	87.39	87.82	88.56	88.36	87.38	86.35	85.12	84.02	83.42	82.81	81.94	81.5	129.53
1600	84.71	86.15	86.19	86.79	86.98	86.2	86.75	87.07	87.64	87.55	87.96	88	88.6	88.97	88.66	88.24	87.09	86	85.05	84.09	83.17	82.49	82.16	130.05
2000	84.31	85.57	86.15	86.75	86.92	86.47	86.97	87.32	87.36	87.41	88.16	88.38	89.09	89.44	89.06	88.31	87.27	86.29	85.4	84.56	83.66	82.83	82.85	130.2
2500	83.19	84.29	84.71	85.43	85.95	85.52	86.25	86.97	87.08	87.24	88.1	88.5	89.17	89.52	89.47	88.84	87.36	85.99	85.13	84.5	83.93	83.36	83.59	129.96
3200	81.9	82.96	83.65	84.37	84.86	83.94	84.97	85.43	86.38	86.52	87.41	87.65	88.27	88.57	88.67	88.35	87.14	85.65	84.53	83.9	83.38	82.64	83.09	129.09
4000	80.53	82	82.89	83.36	83.36	82.6	84.11	83.82	84.57	84.87	85.55	86.21	86.7	86.55	86.28	86.03	85.31	83.97	82.79	82.33	81.58	80.36	80.95	127.43
5000	78.9	80.51	81.66	82.34	81.8	81.57	82.76	82.86	82.86	83.1	84.19	84.12	84.25	83.7	83.31	83.19	82.27	81.26	80.43	79.69	78.7	77.76	78.69	125.43
6300	77.83	79.27	80.74	81.02	80.94	80.27	81.63	81.97	82.01	82.11	82.23	82.02	82.23	81.71	81.14	80.68	79.47	78.31	77.56	77.01	76.15	75.14	76.21	123.8
8000	76.36	78.62	79.97	80.27	80.23	79.23	80.9	80.86	80.74	81.05	81.43	81.13	80.72	79.81	78.83	78.04	77.13	76.23	75.53	74.99	73.91	72.59	73.94	122.56
10000	74.68	76.39	77.25	78.03	78.37	77.92	77.97	78.34	77.8	77.68	78.48	78.98	78.75	78.3	76.53	75.01	74.42	73.01	71.65	71.26	70.26	68.44	69.39	119.89
OASPL	94.28	95.82	95.88	96.2	96.29	96.05	96.66	96.88	97.14	97.38	98.02	98.16	98.67	99	98.98	98.65	97.98	97.49	97.37	97.45	97.78	98.53	99.94	140.37

rdg	462
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nasrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NO20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1002.73
m01	0.29976
pamb	14.0775
tamb	499.146
rhumid	65.76
winds1	0
nprc	1.74
nprb	1.824
ptc	24.4946
ptb	25.6774
wactc	3.364
wactb	17.893
ttc	1392.88
ttb	500.136
ptmix	25.4902
ttmix	641.416
mixpnd	0.807551
grsvlxp	21315
badchan	(26)
bkgnd	458
escdate	05 Dec 96
esctime	17:47:15
DADSdate	97.08.25
DADStime	17:47:15
btchdate	05 Dec 96
btchtime	17:47:15

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 11:17:52 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	53.66	55.11	55.59	57.45	58.61	54.99	56.02	55.76	57.48	57.74	57.68	54.86
80	51.37	54.84	56.01	54.45	58.65	56.66	56.11	58.86	54.47	54.36	57.23	56.53
100	54.85	55.52	55.92	55.09	55.3	56.46	56.51	55.73	55.74	56.99	56.6	58.81
130	54.13	54.39	56.87	57.74	58.1	59.32	58.48	57.86	57.46	58.95	58.64	58.68
160	54.33	54.75	57.44	57.22	58.68	59.58	60.6	59.27	59.37	58.54	59.67	60.23
200	56.78	58.09	58.82	59.9	59.4	60.33	59.91	59.99	60.93	62.07	61.71	61.7
250	57.18	58.76	59.19	57.97	58.79	59.55	61.32	60.12	59.52	59.7	60.75	60.98
320	56.72	58.71	59.79	58.87	60.42	60.32	61.1	61.35	61.55	61.67	62.41	62.21
400	57.42	58.99	59.52	59.79	60.9	61.09	61.99	60.96	61.28	62.03	62.59	62.53
500	57.18	59.21	59.58	60.31	60.43	61.4	61.95	61.71	62.05	62.63	62.86	62.8
630	58.05	60.5	60.54	61.56	61.4	62.18	62.18	62.73	62.91	63.03	63.65	63.82
800	58.21	60.77	60.93	62.28	62.26	62.62	63.43	62.6	63.55	63.95	64.25	63.87
1000	58.31	60.51	60.92	61.83	62.55	62.43	63	63.84	63.95	63.98	64.29	64.03
1300	57.47	59.78	60.5	61.8	62.22	61.98	62.57	63.45	64.03	63.85	64.03	63.83
1600	55.73	57.73	58.87	59.79	60.5	60.22	61.09	63.01	63.04	62.91	63.36	63.2
2000	52.75	54.66	56.06	57.17	57.91	57.36	58.35	61.7	61.73	61.61	62.31	62.3
2500	48.56	50.53	52.48	53.48	54.22	53.72	55.12	58.73	59.39	59.34	59.66	59.43
3200	42.97	45.81	47.41	49.16	49.12	49.12	50.48	55	55.5	55.31	55.7	55.44
4000	34.48	37.77	40.37	41.68	42.29	42.23	43.8	50.52	50.41	50.28	50.53	49.69
5000	22.06	26.81	30.29	32.08	32.91	32.72	34.88	44.38	44.19	43.96	43.58	42.08
6300	0	0	-2.87	10.6	14.89	14.78	18.07	35.04	34.81	34.74	34.29	32.76
8000	0	0	0	0	0	0	0	18.38	16.81	14.55	12.89	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.41	70.36	71.03	71.71	72.13	72.42	73	73.4	73.66	73.89	74.3	74.2
PNL	78.38	80.45	81.44	82.29	82.86	82.85	83.84	84.15	84.32	84.35	84.87	84.75

distance: (	1655.07	1732.05	1831.16	1858.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	56.56	58.71	57.04	56.5	55.98	58.78	57.64	58.41	58.49	58.21	62.22	123.11
80	54.94	58.45	56.61	57.98	57.8	59.04	58.98	58.52	58.28	58.59	58.81	122.74
100	58.64	58.2	59.15	58.81	58.58	59.92	59.2	59.47	59.52	59.28	58.9	123.6
130	59.74	60.06	59.35	60.44	59.56	58.98	59.71	59.52	59.08	58.36	56.85	124.05
160	60.17	61.71	61.37	61.86	61.22	62.11	59.68	58.84	57.84	56.96	58.59	124.78
200	62.26	62.86	63.36	62.84	61.77	61.08	61.58	60.71	60.28	58.66	55.71	126.09
250	61.14	61.75	61.92	61.85	61.13	60.39	61.06	59.26	57.36	55.6	52.86	125
320	62.28	62.21	62.26	62.41	60.74	59.52	59.53	58.08	58.23	53.67	50.32	125.31
400	62.54	62.34	62.52	61.94	60.66	58.93	58.57	57.2	54.76	51.2	47.2	125.23
500	62.96	63.24	62.99	61.66	59.62	57.94	56.98	54.54	51.86	48.84	45.34	125.21
630	63.66	63.62	62.81	61.13	58.29	57.09	56.1	53.74	51	47.75	43.23	125.65
800	63.97	63.94	62.97	61.27	59.41	57.03	54.77	52.44	49.65	45.92	41.01	126
1000	63.97	64.22	63.39	61.83	59.53	57.19	54.48	52.05	48.98	44.77	39.22	126.14
1300	64.1	63.76	62.67	61.11	59.17	56.7	54.74	51.7	48.16	43.89	37.78	125.82
1600	63.51	63.32	62.48	60.87	58.27	55.4	53.99	51.01	47.2	42.4	36.29	124.91
2000	62.32	61.84	60.81	59.17	56.83	53.61	52.59	49.54	45.78	40.78	34.17	123.29
2500	59.27	58.5	57.39	55.72	53.07	49.78	50.44	47	42.84	37.15	29.51	120.25
3200	55.05	53.51	51.69	50.03	47.34	43.89	46.14	42.51	37.54	30.33	20.77	115.81
4000	48.73	47.1	45.26	43.19	39.55	36.53	40.01	35.48	29.45	19.94	0	109.99
5000	41.61	39.3	36.59	33.73	29.75	24.75	31.17	25.67	14.98	0	0	102.83
6300	30.68	27.59	23.76	17.66	2.25	0	16.75	0	0	0	0	92.66
8000	0	0	0	0	0	0	0	0	0	0	0	73.33
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	74.31	74.39	73.95	73.13	71.72	70.91	70.33	69.26	68.23	67.11	66.95	137.11
PNL	84.76	84.44	83.61	82.3	80.18	77.98	75.85	73.35	71	68.17	64.63	83.01

75%L, 20DH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: B, C, D, F, G, H, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	456
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	822.53
m01	0.00822
pamb	14.1795
tamb	499.573
rhumid	58.57
winds1	0
nprc	1.393
nprb	1.445
ptc	19.752
ptb	20.4894
wactc	2.493
wactb	13.764
ttc	1179.13
ttb	503.902
ptmix	20.3763
ttmix	607.448
mixpnd	0.680896
grsvisp	13371.9
badchan	[21,23,24,25,26]
bkgnd	444
escdate	05.Dec.96
esctime	15:54:00
DADSdate	05.Dec.96
DADStime	15:54:00
bichdate	05.Dec.96
bichtime	15:54:00

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:33:50 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.01	73.98	74.71	75.3	75.78	76.13	76.45	76.75	77.06	77.47	77.95	78.58	79.38	80.39	81.65	83.2	85.07	87.31	89.95	0	0	0	0	123.65
100	74.87	75.49	76.02	76.49	76.92	77.34	77.78	78.22	78.73	79.32	80.01	80.82	81.79	82.92	84.25	85.79	87.58	89.62	91.96	0	0	0	0	125.81
130	75.01	75.46	75.77	75.98	76.16	76.36	76.64	77.03	77.57	78.28	79.17	80.21	81.4	82.74	84.21	85.79	87.48	89.27	91.16	0	0	0	0	125.35
160	75.45	75.8	76.37	76.84	77.34	77.87	78.45	79.07	79.74	80.46	81.25	82.1	83.01	83.99	85.03	86.14	87.31	88.54	89.81	0	0	0	0	125.57
200	75.79	76.84	77.31	77.86	78.32	78.73	79.12	79.52	79.97	80.51	81.17	82	83.01	84.21	85.57	86.9	87.98	88.58	88.52	0	0	0	0	125.72
250	76.76	77.27	77.74	78.18	78.61	79.07	79.58	80.17	80.87	81.67	82.56	83.51	84.49	85.46	86.37	87.19	87.88	88.34	88.61	0	0	0	0	126.24
320	77.01	77.52	77.98	78.41	78.82	79.23	79.67	80.14	80.66	81.26	81.94	82.74	83.68	84.8	86.01	87.03	87.57	87.53	86.86	0	0	0	0	125.72
400	76.43	77.35	78.1	78.68	79.15	79.66	80.3	80.97	81.45	82.04	83	83.46	84.03	84.78	85.45	85.59	85.7	86.06	85.57	0	0	0	0	125.34
500	76.43	77.28	78.01	78.58	79.02	79.44	79.94	80.51	81.18	81.91	82.56	83.25	84.13	84.98	85.61	85.96	86.12	85.79	84.67	0	0	0	0	125.28
630	76.01	77.19	78.14	78.76	79.13	79.48	79.98	80.6	81.21	81.8	82.41	83.1	83.63	83.74	84.02	84.66	84.81	84.46	83.36	0	0	0	0	124.57
800	75.95	77.06	77.83	78.56	79.27	79.75	80.18	80.62	81.15	81.61	82.59	82.94	83.5	84.3	84.65	84.6	84.28	83.28	82.23	0	0	0	0	124.5
1000	75.81	77	77.81	78.39	78.85	79.26	79.71	80.23	80.89	81.67	82.4	82.85	83.55	84.08	83.88	83.52	83.23	82.72	81.83	0	0	0	0	124.1
1300	75.41	76.74	77.64	78.25	78.72	79.15	79.58	79.97	80.45	81.11	81.82	82.36	83.23	83.65	83.64	83.3	82.76	81.88	80.78	0	0	0	0	123.7
1600	75.07	76.49	77.37	77.99	78.45	78.78	79.21	79.84	80.4	80.9	81.55	82.16	82.71	83.53	83.87	82.63	81.97	81.94	80.91	0	0	0	0	123.48
2000	74.86	76.38	77.19	77.77	78.3	78.74	79.23	79.71	80.2	80.8	81.48	81.88	82.35	83.09	83.15	81.94	81.44	81.17	80.13	0	0	0	0	123.1
2500	73.98	75.81	76.85	77.73	78.44	78.67	79.18	79.58	79.9	80.5	81.28	81.57	81.93	82.34	82.33	80.86	80.46	80.33	79.1	0	0	0	0	122.63
3200	73.21	75.07	76.1	77.26	78.21	78.28	79.13	79.64	80.17	80.63	80.92	81.31	81.61	82.15	81.77	80.1	79.35	78.93	77.61	0	0	0	0	122.25
4000	72.46	74.73	75.55	76.78	77.87	77.71	78.41	79.06	79.56	79.84	80.42	81.09	81.37	81.15	80.89	78.36	78.25	77.54	76.27	0	0	0	0	121.81
5000	71.18	73.58	74.24	75.25	76.21	76.46	77.34	78.17	78.69	79.14	79.77	80.31	80.5	80.57	79.95	78	76.77	76.19	74.92	0	0	0	0	120.63
6300	70.03	72.55	72.84	73.8	75.27	75.13	76.14	77.42	78.24	78.31	78.39	78.95	79.69	79.84	78.91	76.8	75.33	74.59	73.53	0	0	0	0	119.57
8000	68.99	71.8	71.51	72.88	74.8	73.99	75.13	76.5	77.61	77.52	77.66	78.51	79.04	78.75	77.51	75.67	74.35	73.38	72.05	0	0	0	0	118.72
10000	66.26	66.37	66.12	70.56	73.55	72.12	72.04	73.99	75.55	74.72	74.74	75.21	76.27	76.56	75.54	73.5	71.6	70.37	68.78	0	0	0	0	116.19
OASPL	88.16	89.29	89.98	90.66	91.26	91.58	92.11	92.69	93.27	93.82	94.49	95.12	95.62	96.53	97.06	97.4	97.95	98.59	99.31	0	0	0	0	137.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	456
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nalrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	822.53
m01	0.00622
pamb	14.1795
tamb	499.573
rhumid	58.57
winds1	0
nprc	1.393
nprb	1.445
ptc	19.752
ptb	20.4894
wacic	2.493
wacib	13.764
ttc	1179.13
ttb	503.902
ptmix	20.3763
ttmix	607.448
mixpnd	0.680696
grsvup	13371.9
badchan	[21,23,24,25,26]
bkgnd	444
escdate	05.Dec.96
esctime	15:54:00
DADSdate	05.Dec.96
DADStime	15:54:00
btchdate	05.Dec.96
btchtime	15:54:00

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:33:57 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.22	52.66	53.81	54.71	55.41	55.95	56.37	56.71	57	57.29	57.61	57.99	58.48	59.09	59.87	60.83	62	63.4	65.04	0	0	0	0	123.59
100	53.05	54.15	55.09	55.87	56.55	57.13	57.66	58.15	58.63	59.11	58.64	60.21	60.85	61.59	62.43	63.38	64.46	65.67	67	0	0	0	0	125.71
130	53.14	54.08	54.79	55.32	55.74	56.11	56.49	56.91	57.42	58.04	58.75	59.55	60.42	61.36	62.33	63.33	64.31	65.24	66.12	0	0	0	0	125.18
160	53.49	54.45	55.31	56.11	56.85	57.58	58.23	58.88	59.52	60.15	60.76	61.37	61.96	62.53	63.08	63.59	64.04	64.41	64.66	0	0	0	0	125.33
200	53.71	55.08	56.15	57.02	57.73	58.31	58.81	59.25	59.66	60.1	60.59	61.16	61.85	62.65	63.5	64.22	64.56	64.29	63.19	0	0	0	0	125.35
250	54.51	55.52	56.41	57.18	57.87	58.51	59.12	59.75	60.41	61.1	61.82	62.51	63.15	63.7	64.1	64.29	64.22	63.81	63	0	0	0	0	125.88
320	54.51	55.56	56.45	57.22	57.89	58.48	59.02	59.53	60.02	60.51	61.01	61.54	62.15	62.83	63.53	63.91	63.67	62.7	60.91	0	0	0	0	124.93
400	53.57	55.03	56.23	57.16	57.9	58.6	59.35	60.06	60.5	60.98	61.75	61.94	62.16	62.47	62.59	62.07	61.38	60.78	59.1	0	0	0	0	124.23
500	53.13	54.58	55.75	56.69	57.41	58.03	58.64	59.25	59.89	60.5	60.95	61.36	61.87	62.25	62.31	61.97	61.28	59.93	57.57	0	0	0	0	123.73
630	52.21	53.99	55.43	56.45	57.1	57.67	58.29	58.95	59.52	59.96	60.39	60.8	60.93	60.55	60.22	60.13	59.39	57.95	55.51	0	0	0	0	122.58
800	51.6	53.35	54.83	55.77	56.78	57.48	58.04	58.53	59.02	59.56	60.11	60.16	60.31	60.59	60.3	59.48	58.21	56.06	53.58	0	0	0	0	122.02
1000	50.9	52.75	54.11	55.12	55.9	56.54	57.12	57.88	58.29	58.94	59.44	59.67	59.85	59.85	58.96	57.79	56.49	54.78	52.35	0	0	0	0	121.1
1300	49.89	51.92	53.39	54.45	55.25	55.92	56.49	56.92	57.36	57.88	58.38	58.55	58.96	58.83	58.12	56.92	55.33	53.15	50.42	0	0	0	0	120.14
1600	48.86	51.03	52.52	53.6	54.41	54.98	55.58	56.24	56.74	57.1	57.5	57.76	57.85	58.06	57.66	55.51	53.72	52.29	49.52	0	0	0	0	119.26
2000	47.78	50.1	51.54	52.63	53.53	54.23	54.88	55.41	55.85	56.3	56.71	56.72	56.69	56.81	56.06	53.88	52.17	50.37	47.48	0	0	0	0	118.14
2500	45.67	48.36	50.11	51.54	52.65	53.17	53.84	54.3	54.56	54.99	55.5	55.38	55.19	54.92	54.03	51.48	49.78	48.02	44.72	0	0	0	0	116.82
3200	43.11	45.96	47.77	49.52	50.9	51.31	52.33	52.91	53.37	53.83	53.61	53.55	53.25	53.03	51.67	48.79	46.57	44.28	40.59	0	0	0	0	114.7
4000	39.63	43	44.75	46.7	48.31	48.48	49.41	50.13	50.55	50.61	50.8	50.95	50.58	49.48	48.05	45.1	42.27	39.39	35.32	0	0	0	0	111.68
5000	34.22	37.94	39.66	41.56	43.15	43.82	44.94	45.81	46.23	46.46	46.7	46.56	45.87	44.81	42.84	39.27	36.92	32.57	27.77	0	0	0	0	107.04
6300	26.15	30.63	32.1	34.31	36.55	37.04	38.33	39.71	40.4	40.18	39.7	39.41	38.99	37.93	35.33	30.62	26.55	21.28	10.08	0	0	0	0	100.25
8000	0	17.89	20.55	24.02	27.43	27.38	29.11	30.63	31.54	31.11	30.55	30.38	29.37	27.09	23.01	14.51	0	0	0	0	0	0	0	90.67
10000	0	0	0	0	0	0	0	3.82	10.04	6.12	0	0	0	0	0	0	0	0	0	0	0	0	0	66.95
OASPL	64.37	65.79	66.93	67.86	68.61	69.22	69.81	70.37	70.88	71.39	71.93	72.33	72.76	73.17	73.44	73.55	73.63	73.62	73.61	0	0	0	0	135.58
PNL	71.03	73.26	74.77	76.06	77.09	77.66	78.36	78.93	79.36	79.79	80.24	80.36	80.45	80.42	78.94	78.77	78.05	77	75.52	0	0	0	0	79.11

NASA Lewis Allison AST Jet Noise Test 1996

rdg 455
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH25
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 924.15
m01 0.00503
pamb 14.1905
tamb 499.194
rhumid 59.18
winds1 0
nprc 1.543
nprb 1.614
ptc 21.8959
ptb 22.9035
wactc 2.699
wactb 18.118
ttc 1320.59
ttb 504.234
ptmix 22.759
ttmix 621.329
mixpnd 0.756202
grsvixp 17389.7
badchan (26)
bkgnd 444
escdate 05.Dec.96
esctime 15:42:36
DADSdate 97.08.18
DADStime 15:42:36
btchdate 05.Dec.96
btchtime 15:42:36
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 11:19:48 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance (ft)	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	78.4	80.06	80.63	80.88	80.98	80.95	80.89	80.86	81.01	81.56	82.69	84.37
100	79.88	80.8	81.33	81.57	81.65	81.69	81.79	82.03	82.47	83.2	84.28	85.71
130	79.87	80.01	79.88	79.75	79.8	80.12	80.63	81.28	82.01	82.75	83.43	84.06
160	81.66	81.91	82.44	83.07	83.63	83.95	84.08	84.17	84.3	84.63	85.29	86.36
200	81.55	82.43	82.98	83.33	83.64	84.2	84.8	84.58	84.71	85.79	86.75	87.53
250	81.37	82.11	82.74	83.22	83.47	83.66	84.04	84.47	84.98	85.81	86.65	87.05
320	81.65	82	82.42	82.92	83.46	84.01	84.45	84.73	85.12	85.8	86.5	87.19
400	81	81.73	82.28	82.71	83.08	83.46	84.05	84.94	85.74	86.33	87.14	87.65
500	81.26	81.76	82.22	82.78	83.12	83.66	84.23	84.69	85.34	86.19	86.79	87.25
630	80.8	81.55	82.19	82.66	83.13	83.63	84.13	84.78	85.29	85.92	86.65	87.79
800	81.09	81.95	82.37	82.64	82.97	83.46	84.12	84.9	85.44	85.9	86.63	87.37
1000	81.12	82.03	82.54	82.86	82.99	83.26	83.8	84.46	85.06	85.6	86.44	87.2
1300	80.83	81.53	82.08	82.49	82.91	83.29	83.77	84.33	84.8	85.33	86.61	87.43
1600	80.44	81.49	81.88	82.3	82.85	83.28	83.87	84.26	84.73	85.42	86.31	87.08
2000	79.96	80.99	81.56	82.15	82.73	83.18	83.78	84.36	84.81	85.22	86.1	86.84
2500	78.88	80.06	81.01	82.06	82.82	83.14	83.65	84.22	84.61	85.1	85.65	86.34
3200	78.56	79.78	80.52	81.36	82.05	82.59	83.5	84.12	84.48	84.77	85.4	86.05
4000	77.69	78.72	79.47	80.74	81.7	82.2	82.99	83.25	83.56	84.33	85.11	85.57
5000	76.36	77.76	78.44	79.14	79.89	80.67	82.07	82.49	82.73	83.48	84.17	84.53
6300	75.29	76.59	77.23	78.17	78.92	79.61	80.81	81.61	82.1	82.87	83.21	83.42
8000	74.17	75.72	76.28	77.19	77.94	78.62	80	80.75	81.36	82.12	82.69	82.85
10000	71.38	72.35	73.18	74.96	76.41	76.87	77.41	77.95	78.74	79.45	79.98	79.44
OASPL	93.27	94.1	94.64	95.16	95.61	96.03	96.61	97.06	97.52	98.16	98.98	99.86

distance (ft)	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	86.16	87.56	88.46	89.58	91.72	94.19	95.78	97.15	98.25	98.47	0	132.81
100	87.19	88.39	89.31	90.84	93.1	95.87	98.38	100.26	100.4	99.78	0	134.57
130	84.9	88.23	88.15	90.5	93.05	95.58	97.82	99.43	99.75	98.35	0	133.79
160	87.63	88.82	90.1	91.81	93.71	95.56	97.09	98.08	98.83	99	0	133.9
200	88.33	89.3	90.03	91.02	93.06	94.24	94.43	94.41	93.55	93.04	0	132
250	87.79	89.85	91.31	92.07	93.11	93.83	93.95	93.78	93.4	92.39	0	131.93
320	88.37	89.57	90.75	91.76	93.46	93.54	92.33	90.96	89.6	88.66	0	131.25
400	88.74	89.71	90.85	91.15	92.08	91.98	90.9	89.6	87.69	86.14	0	130.68
500	88.25	89.29	90.39	90.96	91.58	90.94	89.53	88.27	86.6	84.53	0	130.18
630	88.31	89.28	89.94	90.25	90.58	89.58	88.05	86.52	84.42	82.5	0	129.69
800	88.14	88.68	89.26	89.41	89.67	88.75	87.14	85.94	83.94	82.43	0	129.25
1000	87.9	88.9	88.74	88.98	88.86	87.89	86.4	85.22	84.03	82.12	0	128.93
1300	88.07	88.86	88.81	88.1	87.98	87.4	85.6	84.38	82.99	81.17	0	128.68
1600	87.9	88.82	88.91	87.57	87.35	86.63	85.26	83.96	82.57	80.67	0	128.47
2000	87.67	88.78	88.45	86.75	86.65	86.1	84.62	83.44	82.01	80.01	0	128.17
2500	87.13	88.17	88.07	86.42	85.89	85.02	83.69	82.64	81.22	79.27	0	127.72
3200	86.56	87.45	87.11	85.45	84.98	84.03	82.39	81.34	79.97	77.95	0	127.13
4000	85.65	85.85	85.88	84.43	83.67	82.4	80.75	79.72	78.13	76.25	0	126.21
5000	84.68	84.7	84.06	82.82	82.13	80.66	79.09	77.87	75.76	73.95	0	125.02
6300	83.72	83.6	82.76	81.42	80.48	78.87	77.42	75.84	73.07	71.53	0	123.93
8000	82.56	82.23	81.38	80.1	79.31	77.57	75.64	73.69	71.05	69.97	0	122.96
10000	79.48	79.58	79.09	77.7	76.18	74.11	71.84	70.11	67.78	66.35	0	120.24
OASPL	100.47	101.45	102.07	102.45	103.83	104.56	105.35	106.18	106.32	105.75	0	143.67

NASA Lewis Allison AST Jet Noise Test 1996

rdg	455
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nalrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	924.15
m01	0.00503
pamb	14.1905
tamb	499.194
rhumid	59.18
winds1	0
nprc	1.543
nprb	1.814
ptc	21.8959
ptb	22.9035
wactc	2.899
wactb	16.118
ttc	1320.59
ttb	504.234
ptmix	22.759
ttmix	621.328
mixpnd	0.756202
grsvixp	17369.7
badchan	(26)
bkgnd	444
escdate	05.Dec.96
esctime	15:42:36
DADSdate	97.08.18
DADStime	15:42:36
bichdate	05.Dec.96
bichtime	15:42:36

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 11:19:58 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.62	58.77	59.72	60.3	60.62	60.77	60.81	60.82	60.94	61.38	62.34	63.78	65.26	66.26	66.67	67.21	68.65	70.29	70.86	71.04	70.67	69.02	0	132.53
100	58.06	59.47	60.39	60.95	61.28	61.49	61.69	61.96	62.37	63	63.91	65.09	66.25	67.06	67.49	68.23	69.99	71.91	73.42	74.1	72.74	70.24	0	134.43
130	58	58.62	58.9	59.09	59.38	59.87	60.48	61.17	61.86	62.5	63	63.4	63.92	64.85	66.28	68.03	69.87	71.56	72.79	73.17	71.99	68.67	0	133.57
160	59.7	60.44	61.39	62.34	63.14	63.63	63.87	63.99	64.09	64.31	64.8	65.63	66.57	67.35	68.14	69.25	70.44	71.43	71.95	71.7	70.91	69.13	0	133.57
200	59.47	60.86	61.81	62.5	63.05	63.79	64.6	64.31	64.4	65.37	66.16	66.7	67.17	67.73	67.96	68.33	69.65	69.96	69.1	67.8	65.38	62.87	0	131.56
250	59.11	60.37	61.42	62.22	62.73	63.1	63.57	64.05	64.52	65.24	65.9	66.06	66.46	68.1	69.05	69.19	69.48	69.31	68.36	66.89	64.88	61.75	0	131.28
320	59.15	60.03	60.88	61.72	62.52	63.26	63.81	64.12	64.47	65.05	65.56	66	66.83	67.61	68.26	68.64	69.56	68.7	66.36	63.64	60.58	57.43	0	130.38
400	58.14	59.41	60.4	61.19	61.82	62.4	63.11	64.03	64.79	65.27	65.9	66.14	66.88	67.4	68	67.63	67.76	66.69	64.45	61.7	57.97	54.02	0	129.47
500	57.97	59.05	59.96	60.89	61.51	62.26	62.95	63.44	64.04	64.77	65.18	65.36	66	66.57	67.1	66.99	66.78	65.12	62.44	59.63	56	51.31	0	128.54
630	56.99	58.35	59.49	60.35	61.1	61.81	62.43	63.12	63.6	64.11	64.84	65.48	65.61	66.09	66.14	65.71	65.15	63.02	60.18	56.99	52.77	47.96	0	127.58
800	56.74	58.23	59.18	59.85	60.49	61.19	61.97	62.8	63.29	63.64	64.16	64.58	64.96	64.97	64.91	64.28	63.59	61.52	58.49	55.51	51.2	48.57	0	126.63
1000	56.21	57.79	58.84	59.58	60.04	60.54	61.21	61.9	62.48	62.87	63.48	63.91	64.2	64.66	63.83	63.23	62.13	59.83	56.93	53.85	50.17	44.86	0	125.78
1300	55.11	56.72	57.82	58.69	59.43	60.05	60.67	61.27	61.7	62.1	63.14	63.63	63.82	64.04	63.29	61.71	60.55	58.66	55.24	51.96	47.88	42.33	0	124.99
1600	54.23	56.02	57.01	57.89	58.8	59.46	60.23	60.69	61.06	61.62	62.27	62.67	63.03	63.35	62.69	60.44	59.1	56.99	53.87	50.34	46.04	40.06	0	124.15
2000	52.88	54.71	55.93	57	57.95	58.86	59.4	60.07	60.47	60.72	61.33	61.69	62.01	62.49	61.37	58.68	57.39	55.34	51.96	48.37	43.75	37.28	0	123.07
2500	50.59	52.62	54.27	55.87	57.03	57.63	58.31	58.93	59.29	59.61	59.86	60.14	60.39	60.75	59.81	57.08	55.19	52.65	49.26	45.53	40.53	33.51	0	121.56
3200	48.47	50.65	52.17	53.62	54.77	55.81	56.72	57.41	57.7	57.8	58.1	58.32	58.23	58.35	57.03	54.15	52.2	49.39	45.38	41.27	35.73	27.8	0	119.41
4000	44.82	46.99	48.66	50.63	52.12	52.97	54	54.32	54.56	55.1	55.52	55.44	54.81	54.17	52.88	50.18	47.67	44.21	39.77	35.09	28.49	17.59	0	116.13
5000	39.4	42.13	43.87	45.44	46.85	48.26	49.7	50.16	50.33	50.77	51.03	50.81	50.1	48.98	47.08	44.16	41.27	37.16	32.12	26.15	14.9	0	0	111.34
6300	31.73	34.66	36.66	38.64	40.24	41.49	43.01	43.65	44.26	44.65	44.43	43.86	43.23	41.73	39.18	35.63	31.82	26.46	18.97	0	0	0	0	104.55
8000	17.7	23.68	26.42	28.91	30.79	32.2	34.06	34.98	35.41	35.7	35.49	34.68	33.02	30.89	27.54	22.68	14.95	0	0	0	0	0	0	95.06
10000	0	0	0	0	4.24	11.33	15.94	17.98	18.95	18.98	18.28	14.88	9.18	0	0	0	0	0	0	0	0	0	0	76.6
OASPL	69.48	70.77	71.74	72.53	73.17	73.74	74.33	74.78	75.18	75.71	76.35	76.85	77.44	78.12	78.48	78.61	78.35	78.75	79.62	78.59	78.31	75.87	0	142.32
PNL	76.3	78.02	79.32	80.54	81.5	82.18	82.92	83.49	83.88	84.31	84.77	85.1	85.4	85.77	85.31	84.07	83.95	82.95	81.46	79.95	77.7	74.42	0	85.05

NASA Lewis Allison AST Jet Noise Test 1996

rdg	454
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	972.67
m01	0.0056
pamb	14.1915
tamb	499.044
rhumid	58.71
windel	0
nprc	1.741
nprb	1.822
ptc	24.7074
ptb	25.8569
wactc	3.03
wactb	18.5
ttc	1408.83
ttb	503.873
ptmix	25.6951
ttmix	631.231
mixpnd	0.789636
grsvixp	20941.6
badchan	(21,26)
bkgnd	444
escdate	05.Dec.96
esctime	15:37:07
DADSdate	05.Dec.96
DADStime	15:37:07
btchdate	05.Dec.96
btchtime	15:37:07

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 05:30:58 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (ft)	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100
roll angle (	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100
80	82.7	83.61	84.08	84.17	84.05	83.83	83.82	83.53	83.68	84.19
100	83.35	83.93	84.39	84.77	85.1	85.39	85.69	86.01	86.38	86.82
130	84.94	85.42	85.69	85.81	85.84	85.84	85.86	85.95	86.17	86.59
160	87.29	88	88.31	88.31	88.13	87.86	87.62	87.51	87.64	88.12
200	86.45	87.2	87.71	88.04	88.24	88.39	88.51	88.67	88.9	89.26
250	85.35	86.02	86.51	86.85	87.12	87.37	87.67	88.07	88.64	89.41
320	85.83	86.51	86.89	87.13	87.29	87.44	87.62	87.88	88.3	88.91
400	85.15	85.77	86.29	86.77	87.21	87.66	88.13	88.67	89.28	90
500	85.54	86.07	86.45	86.73	86.96	87.21	87.52	87.95	88.53	89.33
630	85.48	86.03	86.48	86.85	87.18	87.52	87.91	88.37	88.95	89.68
800	85.84	86.4	86.79	87.1	87.37	87.66	88.04	88.53	89.14	89.85
1000	86.16	86.73	87.02	87.18	87.31	87.51	87.84	88.22	88.68	89.56
1300	85.69	86.26	86.61	86.91	87.2	87.46	87.86	88.22	88.84	89.58
1600	85.3	86.14	86.57	86.9	87.24	87.51	87.78	88.19	88.8	89.56
2000	84.69	85.65	86.2	86.62	87.08	87.57	87.97	88.25	88.65	89.33
2500	83.7	84.69	85.42	86.19	86.86	87.34	87.96	88.27	88.67	89.19
3200	82.7	83.98	84.78	85.64	86.36	86.79	87.59	87.84	88.14	88.81
4000	81.77	82.96	83.62	84.63	85.58	85.81	86.8	87.15	87.68	88.31
5000	80.33	81.9	82.52	83.13	83.61	84.37	85.56	86.12	86.43	87.17
6300	78.8	80.51	81.09	81.89	82.43	82.86	84.35	85.17	85.46	86.06
8000	77.55	79.19	79.7	80.84	81.48	81.68	83.45	83.98	84.31	85.15
10000	74.86	78.13	76.42	77.92	79.24	79.56	80.36	80.9	81.29	82.03
OASPL	97.86	98.6	99.06	99.43	99.75	100	100.41	100.75	101.2	101.86

distance: (ft)	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	85.13	86.45	88.07	89.91	91.88	93.91	95.92	97.83	99.55	101.01	102.12	102.82	0	138.38
100	87.37	88.13	89.16	90.58	92.46	94.9	97.79	100.72	103.24	104.91	105.31	104	0	139.05
130	87.25	88.2	89.46	91.09	93.11	95.58	98.33	101.04	103.32	104.78	106.03	103.72	0	139.09
160	89.02	90.28	91.82	93.57	95.43	97.32	99.15	100.84	102.28	103.37	103.99	104.03	0	138.98
200	89.79	90.53	91.51	92.74	94.2	95.89	97.7	99.29	100.27	100.3	99.81	99.88	0	138.98
250	90.42	91.64	93.01	94.48	95.92	97.34	96.62	99.65	100.31	100.45	99.96	98.7	0	137.34
320	89.76	90.88	92.18	93.6	95.03	96.35	97.41	96.08	98.2	97.67	98.59	95.08	0	135.83
400	90.85	91.83	92.92	94.08	95.15	96.01	96.54	96.63	96.16	95.02	93.37	91.53	0	135.15
500	90.4	91.64	92.67	93.79	95.1	95.96	96.21	96.13	95.53	94.17	92.13	89.76	0	134.78
630	90.61	91.72	92.62	93.53	94.36	94.96	95.1	94.61	93.51	91.89	90.26	88.69	0	134.09
800	90.69	91.72	92.65	93.5	94.22	94.3	94	93.21	92.03	90.53	88.94	87.29	0	133.72
1000	90.53	91.45	92.83	93.28	93.68	93.69	93.39	92.81	91.6	90.15	88.67	87.18	0	133.41
1300	90.57	91.3	92.32	93.17	93.2	92.89	92.53	91.96	90.94	89.49	87.74	86	0	133.05
1600	90.48	91.69	92.79	93.4	93.1	92.59	92.17	91.61	90.59	89.02	87.15	85.35	0	133.01
2000	90.36	91.54	92.52	93.2	92.79	91.9	91.39	91.05	90.32	88.91	87.05	85.07	0	132.73
2500	89.97	91.13	92.19	92.9	92.37	91.15	90.64	90.58	89.72	88.39	86.73	84.75	0	132.35
3200	88.74	90.65	91.52	92.42	91.82	90.5	89.95	89.66	88.81	87.67	86.26	84.23	0	131.79
4000	89.09	89.93	90.53	90.88	90.6	89.52	88.77	88.17	87.3	86.05	84.56	82.63	0	130.78
5000	88.01	88.76	89.3	89.84	89.04	88.07	87.25	86.66	85.66	83.87	82.11	80.41	0	129.43
6300	86.69	87.46	88.1	88.17	87.47	86.47	85.79	85.37	84.18	81.45	79.32	77.81	0	128.09
8000	86.1	86.68	87.06	86.96	86.1	85.25	84.71	84.21	82.77	79.41	77.01	75.53	0	127.01
10000	82.97	83.15	83.87	84.24	83.81	82.94	81.88	81.07	79.37	76.05	73.21	71.25	0	124.08
OASPL	102.73	103.74	104.79	105.76	106.55	107.36	108.41	109.57	110.65	111.37	111.48	110.78	0	148.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	454
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	OP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	972.67
m01	0.0056
pamb	14.1915
tamb	499.044
rhumid	58.71
winds1	0
nprc	1.741
nprb	1.822
ptc	24.7074
ptb	25.8569
wactc	3.03
wactb	18.5
ttc	1408.83
ttb	503.873
ptmix	25.6951
ttmix	631.231
mixpnd	0.789636
gravisp	20941.6
badchan	[21,26]
bkgnd	444
escdate	05 Dec.96
esctime	15:37:07
DADSdate	05 Dec.96
DADStime	15:37:07
blchdate	05.Dec.96
blchtime	15:37:07

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:31:04 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	60.92	62.31	63.18	63.58	63.71	63.66	63.54	63.49	63.6	64.01	64.79	65.87
100	61.53	62.59	63.46	64.16	64.72	65.19	65.58	65.94	66.27	66.61	67	67.51
130	63.06	64.03	64.71	65.15	65.43	65.59	65.71	65.83	66.03	66.34	66.83	67.53
160	65.33	66.54	67.25	67.58	67.64	67.54	67.41	67.33	67.43	67.81	68.53	69.54
200	64.38	65.63	66.54	67.2	67.66	67.96	68.21	68.4	68.6	68.85	69.2	69.7
250	63.08	64.28	65.18	65.85	66.37	66.8	67.21	67.65	68.17	68.64	69.68	70.65
320	63.43	64.54	65.35	65.93	66.36	66.66	66.97	67.27	67.85	68.16	68.64	69.68
400	62.29	63.45	64.42	65.25	65.97	66.6	67.19	67.76	68.34	68.94	69.61	70.32
500	62.25	63.35	64.2	64.84	65.36	65.8	66.23	66.69	67.24	67.92	68.79	69.76
630	61.67	62.83	63.77	64.53	65.15	65.7	66.21	66.71	67.25	67.86	68.59	69.42
800	61.49	62.69	63.6	64.32	64.89	65.4	65.91	66.44	67.01	67.59	68.21	68.93
1000	61.23	62.47	63.31	63.89	64.35	64.77	65.24	65.67	66.09	66.83	67.58	68.18
1300	60.18	61.45	62.37	63.11	63.74	64.24	64.77	65.17	65.75	66.45	67.11	67.49
1600	59.09	60.67	61.7	62.5	63.19	63.72	64.12	64.58	65.15	65.76	66.43	67.28
2000	57.62	59.37	60.56	61.48	62.31	63.06	63.6	63.94	64.29	64.83	65.59	66.39
2500	55.42	57.27	58.69	59.99	61.08	61.86	62.63	63	63.34	63.68	64.19	64.83
3200	52.62	54.88	56.45	57.91	59.1	59.83	60.8	61.12	61.36	61.65	62.45	62.9
4000	48.94	51.27	52.85	54.59	56.06	56.61	57.8	58.23	58.68	59.07	59.49	59.82
5000	43.36	46.26	47.97	49.43	50.55	51.73	53.2	53.8	54	54.49	54.93	55.07
6300	35.12	38.52	40.5	42.39	43.77	44.79	46.53	47.45	47.8	47.91	47.98	47.95
8000	22.97	27.55	30.12	32.8	34.46	35.3	37.61	38.25	38.39	38.77	39.04	38.68
10000	0	0	0	4.66	15.78	18.98	21.58	22.51	22.75	22.98	22.96	21.41
OASPL	74.1	75.33	76.21	76.86	77.35	77.74	78.1	78.44	78.84	79.36	80.01	80.77
PNL	81.02	82.65	83.82	84.86	85.71	86.34	87	87.4	87.79	88.25	88.84	89.54

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	67.17	68.61	70.1	71.54	72.85	73.92	74.64	74.9	74.54	73.37	0	136.3
100	68.23	69.24	70.64	72.49	74.66	76.76	78.28	78.74	77.64	74.45	0	138.9
130	68.48	69.7	71.24	73.1	75.15	77.02	78.29	78.52	77.27	74.05	0	138.86
160	70.77	72.11	73.47	74.76	75.88	76.71	77.12	78.97	76.07	74.16	0	138.84
200	70.35	71.17	72.12	73.21	74.29	75.01	74.95	73.7	71.64	69.73	0	136.49
250	71.66	72.71	73.66	74.45	74.99	75.13	74.71	73.54	71.41	68.06	0	136.64
320	70.84	71.83	72.54	73.22	73.51	73.25	72.26	70.37	67.59	63.86	0	134.9
400	71.06	71.77	72.29	72.49	72.21	71.34	69.7	67.12	63.66	59.44	0	133.9
500	70.42	71.08	71.82	71.98	71.36	70.29	68.44	65.55	61.55	56.57	0	133.06
630	69.93	70.34	70.56	70.42	69.66	68.09	65.66	62.38	58.62	54.22	0	131.93
800	69.45	69.78	69.86	69.17	67.93	65.99	63.39	60.1	56.19	51.4	0	131.07
1000	68.92	69.03	68.76	67.95	66.65	64.84	62.12	58.77	54.8	49.89	0	130.21
1300	68.08	68.35	67.67	66.5	65.08	63.21	60.57	57.07	52.63	47.19	0	129.31
1600	67.92	67.92	66.89	65.47	63.93	61.96	59.19	55.42	50.64	44.8	0	128.64
2000	66.86	66.9	65.69	63.83	62.11	60.27	57.65	53.84	48.78	42.32	0	127.56
2500	65.46	65.46	64.08	61.77	59.92	58.21	55.29	51.28	46.02	38.94	0	126.06
3200	63.19	63.3	61.73	59.2	57.15	55	51.78	47.59	42.04	34.06	0	123.9
4000	59.72	59.24	57.79	55.29	52.8	50	46.34	41.42	34.93	25.75	0	120.5
5000	54.77	53.98	52.05	49.36	46.4	43.11	36.63	32.37	23.9	-2.54	0	115.49
6300	47.6	46.34	43.89	40.67	37.2	33.27	27.47	16.15	0	0	0	108.38
8000	37.57	35.6	32.45	28.55	23.96	16.41	0	0	0	0	0	98.76
10000	19.8	15.78	0	0	0	0	0	0	0	0	0	81.79
OASPL	81.54	82.26	82.9	83.51	84.16	84.75	85.06	84.73	83.43	80.83	0	147.04
PNL	90.1	90.36	89.64	89.11	88.92	88.46	87.43	85.91	83.55	80.2	0	90.01

NASA Lewis Allison AST Jet Noise Test 1996

rdg	453
run	1
test_prog	Allison96
test_num	3
test_facil	LaRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	DP20
nozbid	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.47
m01	0.19968
pamb	14.1542
tamb	498.923
rhumid	58.61
winds1	0
nprc	1.393
nprb	1.44
ptc	19.7168
ptb	20.382
wactc	2.494
wactb	13.595
ttc	1179.58
ttb	503.019
ptmix	20.2789
tmix	607.895
mixpnd	0.674605
grsvixp	13120.1
badchan	{26}
bkgnd	445
escdate	05.Dec.96
esctime	15:24:39
DADSdate	97.08.18
DADStime	15:24:39
bichdate	05.Dec.96
bichtime	15:24:39

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:31:19 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	67.85	68.57	68.58	68.39	68.39	68.78	69.36	69.95	70.46	71	71.63	72.39	73.18	73.9	74.5	75.03	75.63	76.39	77.37	78.5	79.76	81.24	83.33	118.79
100	69.03	69.2	69.75	70.39	70.87	71.1	71.28	71.63	72.15	72.67	73.04	73.22	73.42	73.83	74.57	75.59	76.68	77.69	78.59	79.71	81.05	82.48	84.09	117.9
130	70.24	69.36	68.75	68.83	69.2	69.63	70.07	70.53	70.99	71.46	71.92	72.53	73.58	74.74	75.47	75.9	76.43	77.31	78.58	79.81	80.73	81.62	82.9	117.52
160	71.19	71.53	71.27	70.89	70.65	70.68	70.94	71.32	71.77	72.29	72.86	73.49	74.14	74.8	75.46	76.18	77.1	78.22	79.27	80.07	80.56	80.8	80.95	117.91
200	71.73	71.91	71.87	71.89	72	72.22	72.41	72.4	72.59	73.37	74.37	75.12	75.36	75.39	76.51	77.71	78.3	78.76	79.41	80.04	80.43	80.59	80.63	118.6
250	71.82	72.61	73.23	73.77	74.23	74.62	74.98	75.28	75.61	76.06	76.59	77.08	77.65	78.71	79.74	80.13	79.97	79.93	80.36	80.56	80.21	79.67	78.89	120.3
320	72.52	73.63	74.23	74.53	74.58	74.58	74.49	74.59	75.23	75.64	76.38	77.23	77.39	78.4	79.25	79.61	79.72	79.53	79.01	78.86	78.4	77.93	77	119.83
400	71.71	73.57	74.15	74.14	74.09	74.27	74.93	75.53	75.99	76.63	76.57	76.7	77.32	78.17	78.46	78.1	77.71	77.73	77.75	77.41	76.68	75.72	74.67	119.24
500	71.93	73.78	74.38	74.28	74.26	74.7	75.25	75.7	76.04	76.51	77.19	77.85	78.55	78.57	79.15	79.54	79.27	78.66	78.05	77.35	76.45	75.52	74.18	119.82
630	71.05	73.82	74.63	74.88	75.08	75.3	75.5	75.73	75.97	76.31	76.75	77.1	77.63	78.12	78.8	78.45	77.39	76.89	76.66	76.02	74.99	74.09	73.17	119.27
800	72.65	75.38	75.74	75.71	75.9	75.92	75.91	76.14	76.53	76.95	77.68	78.15	78.45	78.61	78.86	78.66	77.97	77.21	76.47	75.37	74.09	73.26	72.71	119.81
1000	73.19	74.84	75.22	75.16	75.33	75.74	76.23	76.55	76.96	77.43	77.81	77.95	78.03	78.43	78.56	77.85	76.66	75.86	75.31	74.4	73.25	72.61	72.04	119.52
1300	73.27	75.31	75.31	75.12	75.2	75.39	76.06	76.68	76.92	76.99	77.24	77.44	77.69	78.14	78.26	77.56	76.3	75.21	74.69	73.87	72.47	71.47	70.97	119.25
1600	72.88	74.96	74.91	75.29	75.7	75.52	75.34	75.8	76.32	76.43	77.03	77.55	77.73	78.12	78.55	77.78	76.25	75.18	74.19	73.04	71.9	71.1	70.45	119.09
2000	73.9	75.11	75.3	75.46	75.86	76.04	76.46	76.64	76.6	76.57	76.73	76.94	76.92	77.22	78.01	77.57	76.07	74.61	73.54	72.37	71.4	70.8	70.19	119.02
2500	72.44	74.77	75.64	76.26	76.57	76.49	76.78	76.94	76.81	76.82	77.16	77.1	76.98	76.95	77.15	76.37	74.8	73.62	72.78	71.67	70.4	69.58	69.34	118.96
3200	72.21	74.05	75.08	76.01	76.62	76.46	77.23	77.47	77.32	77.3	77.51	77.58	77.07	76.6	76.6	75.75	74.12	72.78	71.69	70.52	69.26	68.33	68.03	118.96
4000	71.1	73.37	74.79	75.8	76.31	76.29	76.88	77.01	76.87	77.03	77.38	77.76	77.01	76.1	76.06	75.01	73.11	71.82	70.62	69.35	68.14	67.28	67.08	118.62
5000	70.84	72.44	73.78	74.67	75.2	75.26	76.04	76.46	76.35	76.36	76.92	77.37	76.25	75.49	75.31	74.2	72.36	70.86	69.59	68.34	67.2	66.42	66.27	117.89
6300	69.18	71.63	73.12	74.09	74.38	74.19	75.2	76.03	76.22	76.12	75.79	76.45	75.54	74.77	74.42	73.24	71.32	69.68	68.33	67.09	65.95	65.16	64.97	117.15
8000	68.91	71.36	72.72	73.96	74.38	73.74	74.58	75.63	75.87	75.95	75.69	76.47	75.05	73.95	73.16	71.78	70.08	68.77	67.55	66.25	65.02	64.14	63.95	116.78
10000	67.64	69.09	70.4	72.33	73.46	72.32	72.09	73.48	73.74	73.17	73.32	73.44	71.63	70.68	70.42	69.68	67.98	66.09	64.39	62.91	61.69	60.93	60.96	114.42
OASPL	84.97	86.63	87.21	87.61	87.93	87.96	88.38	88.78	89	89.22	89.6	89.99	90	90.22	90.65	90.49	89.98	89.75	89.8	89.89	89.97	90.23	90.83	132.09

NASA Lewis Allison AST Jet Noise Test 1996

rdg	453
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.47
m01	0.19988
pamb	14.1542
tamb	498.823
rhumid	58.61
winds1	0
nprc	1.393
nprb	1.44
ptc	19.7168
ptb	20.382
wactc	2.494
wactb	13.595
ttc	1179.58
ttb	503.019
ptmix	20.2789
ttmix	807.895
mixpnd	0.674605
gravixp	13120.1
badchan	(26)
bkgnd	445
escdate	05.Dec.96
esctime	15:24:39
DADSdate	97.08.18
DADStime	15:24:39
btchdate	05.Dec.96
btchtime	15:24:39

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:31:29 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	44.84	48.28	48.65	49.08	49.44	49.4	51.63	49.91	48.59	51.57	51.35
100	46.55	45.91	48.19	48.49	48.88	48.57	50.24	51.56	51.2	50.84	50.56
130	48.3	46.97	48.55	49.96	49.66	49.2	50.88	50.41	50.61	51.87	51.59
160	49.96	50.9	50.27	50.04	51.58	51.47	52.32	51.14	51.16	52.69	52.98
200	49.14	49.56	51.06	51.42	52.83	53.12	54.65	52.12	51.71	52.71	53.22
250	50.26	51.74	53.42	54.44	54.53	54.66	54.29	54.84	55.89	56.06	57.1
320	49.28	50.94	51.58	51.68	52.54	53.1	53.8	53.99	54.28	54.64	54.48
400	48.48	50.86	52.12	52.47	52.7	53.24	53.94	54.62	55.15	55.77	55.87
500	47.93	50.65	51.91	52.82	53.1	53.51	53.77	54.44	54.8	55.13	55.57
630	47.44	50.83	52	52.38	53.14	53.51	53.84	54.09	54.24	54.77	55.26
800	48.2	51.08	51.79	52.13	52.45	53.07	53.67	54.04	54.4	54.54	54.95
1000	47.39	50.02	50.78	51.05	51.5	51.95	52.89	54	54.2	54.43	54.55
1300	46.77	49.73	50.12	50.72	51.54	51.74	51.69	53.63	53.8	53.75	53.78
1600	46.83	48.67	49.5	50.31	50.89	51.41	52.05	52.19	52.71	52.68	53.06
2000	44.16	47.62	48.82	49.66	50.48	50.82	51.36	52.33	52.31	52.13	52.14
2500	42.23	45.19	46.69	48.4	49.43	49.54	50.45	51.65	51.53	51.41	51.31
3200	38.65	41.82	43.99	45.76	46.82	47.1	47.85	50.75	50.5	50.31	50.25
4000	34.01	37.05	39.41	41.12	42.29	42.77	43.74	48.06	47.82	47.8	47.88
5000	25.11	29.5	32.28	34.26	35.47	35.95	37.2	44.15	43.85	43.55	43.5
6300	0	16.14	21.85	25.03	26.67	26.91	28.44	38.28	38.4	38.01	37.32
8000	0	0	0	0	0	0	0	29.62	29.9	29.48	26.64
10000	0	0	0	0	0	0	0	0	0	0	0
OASPL	58.96	61.87	62.81	63.4	63.99	64.28	64.98	65.39	65.6	65.99	66.23
PNL	66.41	70.99	72.22	73.07	73.84	74.17	74.88	75.3	75.3	75.39	75.44

distance: (	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.26	51.27	51.33	51.45	54.13	53.99	53.69	52.96	52.38	51.93	51.3	50.25	118.88
100	53.05	53.04	52.77	52.33	51.87	53.96	53.94	53.9	53.66	53.17	52.36	51.28	117.41
130	51.42	52.14	54.3	54.53	53.86	53.03	53.13	54.5	54.09	53.08	51.38	49.04	117.55
160	53.15	54.15	53.23	53.44	54.06	55.03	54.48	53.71	52.9	51.86	51.03	48.56	117.82
200	54.07	53.64	54.06	55.51	55.25	54.31	54.76	54.17	53.27	51.51	49.76	46.37	118.23
250	57.37	57.36	57.69	58.6	58.09	57.43	55.88	54.34	52.99	50.91	47.98	43.96	120.3
320	55.15	55.06	55.29	55.12	54.35	53.66	52.78	52.06	50.23	47.79	44.97	40.89	117.65
400	55.55	55.57	55.97	56.11	55.79	54.26	53.11	51.41	49.63	46.92	43.5	39.03	118.35
500	55.79	56.19	55.71	55.61	54.9	53.39	51.43	49.81	47.43	44.21	40.61	36.02	117.91
630	55.5	55.26	55.31	54.92	53.64	51.85	50.5	48.71	46.05	42.86	39.14	34.36	117.38
800	54.95	54.91	54.95	54.86	53.43	51.58	49.4	47.03	44.17	40.64	36.96	31.7	116.99
1000	54.36	53.92	53.58	53.1	51.66	49.36	47.41	45.31	42.54	38.87	34.42	28.76	116.04
1300	53.72	53.55	53.44	53.08	51.59	49.12	46.51	44.13	40.91	36.97	32.44	26.2	115.58
1600	53.1	52.7	52.44	52.13	50.56	47.9	45.29	42.33	38.99	35.09	30.32	23.72	114.74
2000	51.84	51.32	50.72	50.39	48.91	46.3	43.46	40.36	36.75	32.39	27.14	19.94	113.75
2500	51	50.2	49.43	48.85	46.6	43.66	40.61	37.73	33.95	29.08	23.07	-2.79	112.53
3200	49.96	48.86	47.48	46.49	44.36	40.92	37.66	34.07	29.73	24.35	12.83	0	110.8
4000	47.73	46.14	44.26	42.92	40.53	36.99	33.34	29.32	24.27	12.96	0	0	107.72
5000	43.35	41.48	39.67	38.14	35.19	31.04	26.64	20.17	0	0	0	0	103.01
6300	37.15	35.12	32.96	30.75	27.16	21.31	-2.38	0	0	0	0	0	96.66
8000	28.26	24.9	20.96	14.13	0	0	0	0	0	0	0	0	87.28
10000	0	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	66.43	66.35	66.36	66.45	65.88	65.01	64.09	63.24	62.13	60.66	59.1	56.8	129.34
PNL	75.38	74.79	74.23	73.74	72.35	70.27	68.5	66.61	64.27	61.42	57.8	53.04	75.22

NASA Lewis Allison AST Jet Noise Test 1996

rdg	452
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	922.36
m01	0.2006
pamb	14.165
tamb	496.767
rhumid	58.8
winds1	0
nprc	1.542
nprb	1.611
ptc	21.8424
ptb	22.8198
wactc	2.703
wactb	16.04
ttc	1313.85
ttb	502.236
ptmix	22.6769
ttmix	619.282
mixpnd	0.755963
grsvixp	17287.8
badchan	(26)
bkgnd	445
escdate	05.Dec 96
esctime	15:16:06
DADSdate	05.Dec.96
DADStime	15:16:06
bichdate	05.Dec.96
bichtime	15:16:06

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 05:28:07 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	70.35	71.11	71.68	72.13	72.5	72.83	73.15	73.49	73.87	74.29	74.78	75.34
100	73.73	74.38	74.73	74.92	75.01	75.09	75.2	75.39	75.68	76.1	76.66	77.38
130	73.6	74.23	74.44	74.51	74.52	74.52	74.58	74.71	74.95	75.32	75.84	76.53
160	75.43	75.88	76.16	76.29	76.36	76.41	76.51	76.68	76.96	77.38	77.95	78.67
200	74.95	76.14	76.86	77.28	77.5	77.63	77.78	77.94	78.23	78.66	79.26	80.08
250	76.44	77.29	77.75	78	78.19	78.38	78.62	78.84	79.35	79.87	80.52	81.28
320	77	77.94	78.26	78.31	78.34	78.46	78.72	78.96	79.24	79.67	80.33	81.2
400	76.73	77.4	77.82	77.86	78.32	78.99	79.34	79.53	79.85	80.42	80.96	81.35
500	77.24	78.22	78.56	78.64	78.74	78.99	79.46	79.94	80.26	80.95	81.66	82.18
630	76.83	78.53	78.76	78.69	78.79	79.15	79.47	79.77	80.03	80.31	80.61	81.07
800	77.29	79.49	79.62	79.49	79.35	79.46	79.75	80.04	80.64	81.48	81.92	82.45
1000	77.92	80.36	79.71	79.44	79.98	80.08	80.15	80.53	80.99	81.5	81.99	82.47
1300	78.1	79.64	79.59	79.55	79.71	79.85	80.01	80.27	80.7	81.36	81.83	81.96
1600	77.28	78.93	79.38	79.7	80.01	80.33	80.56	80.67	80.99	81.31	81.82	82.35
2000	77.24	78.75	79.38	79.9	80.36	80.62	80.79	80.93	81.1	81.38	81.63	82.27
2500	76.39	78.12	78.96	79.92	80.74	81.09	81.12	81.05	81.2	81.5	81.73	82.03
3200	76.26	77.47	78.42	79.8	80.74	80.96	81.14	81.25	81.45	81.72	81.87	81.95
4000	75.17	76.94	77.93	79.39	80.26	80.46	80.81	80.54	80.8	81.34	81.79	81.96
5000	73.93	76.15	76.85	78.2	78.71	79.09	79.78	79.91	80.04	80.65	81.26	81.41
6300	72.96	75.34	75.91	77.28	77.56	77.74	78.57	78.68	79.26	80.26	80.42	80.28
8000	72.18	74.69	75.06	76.61	76.68	76.7	77.54	77.64	78.37	79.51	79.95	79.93
10000	70.57	72.24	72.06	74.8	75.15	74.59	74.57	74.84	75.68	77.01	77.38	76.73
OASPL	89.27	90.75	91.1	91.6	91.96	92.18	92.46	92.62	92.96	93.5	93.95	94.34

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76	76.79	77.72	78.79	80.02	81.41	82.95	84.57	86.22	88.05	90.45	121.85
100	78.25	79.25	80.35	81.55	82.83	84.18	85.59	86.95	88.2	89.41	90.85	123.93
130	77.37	78.38	79.55	80.87	82.34	83.94	85.66	87.31	88.74	89.99	91.25	123.91
160	79.52	80.48	81.53	82.86	83.84	85.06	86.36	87.51	88.44	89.18	89.91	124.58
200	80.98	81.91	82.8	83.61	84.3	84.87	85.31	85.65	85.94	86.37	87.26	124.3
250	82.09	82.89	83.63	84.33	85.03	85.74	86.46	86.96	87.13	86.87	86.25	125.23
320	81.96	82.52	82.96	83.59	84.26	84.68	85.08	85.31	85.15	84.52	83.32	124.48
400	81.64	82.07	82.57	83.13	83.6	83.91	83.97	83.71	83.09	82.24	81.26	124.02
500	82.77	83.29	83.52	83.56	83.64	83.78	83.68	83.21	82.37	81.23	79.86	124.4
630	81.94	82.38	82.55	82.66	82.59	82.27	81.65	80.91	80.1	79.09	78.23	123.55
800	82.98	83.2	83.16	82.72	82.28	82.1	81.61	80.72	79.49	78.22	77.14	124.09
1000	82.83	83.03	83.23	82.9	82.06	81.41	80.85	80.11	79.04	77.88	76.91	124.15
1300	82.64	83.26	83.5	82.78	81.74	81.1	80.52	79.6	78.33	77.06	76.13	123.97
1600	82.72	83.28	83.53	82.79	81.6	80.94	80.22	79.02	77.59	76.48	75.91	124.02
2000	82.75	83.19	83.67	82.79	81.14	80.32	79.61	78.47	77.14	76.11	75.59	124
2500	82.43	82.86	83.11	82.22	80.71	79.82	78.8	77.67	76.21	75.03	74.58	123.82
3200	82.02	81.91	81.9	81.2	79.89	78.81	78.01	76.82	75.23	74.06	73.79	123.5
4000	81.59	80.93	80.59	79.82	78.62	77.63	76.82	75.24	73.79	72.89	72.75	122.88
5000	81.07	80.34	79.49	78.42	77.2	76.01	74.93	73.62	72.26	71.44	71.39	121.96
6300	79.99	79.26	78.61	77.43	75.9	74.67	73.51	72.25	71.05	70.26	70.1	120.96
8000	79.44	78.4	77.26	76.07	74.84	73.72	72.6	71.18	69.7	68.64	68.79	120.15
10000	76.14	75.35	74.73	73.88	72.51	70.92	69.42	67.78	66.2	65.26	65.27	117.5
OASPL	94.73	95.05	95.34	95.32	95.29	95.55	95.95	96.35	96.75	97.24	98.08	136.94

NASA Lewis Allison AST Jet Noise Test 1996

rdg	452
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	922.36
m01	0.2006
pamb	14.165
tamb	498.787
rhumid	58.8
winds1	0
nprc	1.542
nprb	1.611
ptc	21.8424
ptb	22.8198
wactc	2.703
wactb	16.04
ttc	1313.85
ttb	502.236
ptmix	22.6789
ttmix	619.282
mixpnd	0.755983
gravixp	17287.8
badchan	(26)
bkgnd	445
escdate	05.Dec.96
esctime	15:16:06
DADSdate	05.Dec.96
DADStime	15:16:06
btchdate	05.Dec.96
btchtime	15:16:06

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 05:28:13 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	49.55	53.19	53.25	53.12	53.01	52.87	55.51	53.45	51.99	55.58	55.52	55.61
100	50.73	50.84	53.57	53.82	53.95	53.28	54.71	55.32	54.83	54.48	54.47	56.72
130	53.04	52.92	52.85	54.79	54.75	54.52	56.41	54.59	54.6	56.1	56.03	56.1
160	53.13	55.47	56.14	56.4	57.44	57.15	57.67	56.5	56.31	57.53	57.66	57.9
200	53.53	54.53	55.99	56.16	57.24	57.26	58.36	57.66	57.4	58.05	58.24	59.19
250	54.98	56.2	57.42	58.06	58.01	58.37	58.51	58.51	59.65	59.88	60.92	61.48
320	53.89	54.62	55.2	55.67	56.71	57.78	58.07	58.38	58.33	58.75	58.7	59.52
400	53.88	55.35	56.16	56.67	57.16	57.6	58.19	58.61	58.93	59.49	60.05	59.87
500	53.15	55.04	55.75	56.32	56.66	57.28	57.79	58.68	59.03	59.56	60.05	60.38
630	52.82	55.01	56.07	56.45	56.7	57.02	57.55	58.12	58.32	58.7	58.83	59.13
800	52.91	56.42	56.17	56.22	56.96	57.32	57.55	57.93	58.61	59.12	59.36	59.49
1000	52.37	54.86	55.34	55.55	55.96	56.42	56.86	57.97	58.33	58.64	58.82	58.87
1300	51.43	53.57	54.34	55.2	55.95	56.5	56.89	57.22	57.63	58.21	58.52	58.4
1600	50.03	52.65	53.78	54.76	55.58	56.08	56.42	57.07	57.33	57.47	57.74	57.97
2000	48.4	50.91	52.33	53.57	54.71	55.48	55.73	56.63	56.78	56.91	56.91	57.05
2500	46.03	48.5	50.17	52.15	53.6	54.09	54.34	55.76	55.9	56.04	55.98	55.84
3200	42.93	45.33	47.28	49.28	50.69	51.27	51.76	54.52	54.67	54.71	54.65	54.39
4000	37.26	40.87	42.84	44.76	45.85	46.73	47.46	51.61	51.73	52.16	52.23	51.74
5000	29.46	33.17	35.27	37.84	38.71	39.62	40.77	47.56	47.53	47.8	47.91	47.35
6300	13.59	22.16	25.03	28.15	29.49	30.27	31.57	40.95	41.42	42.17	41.87	41.01
8000	0	0	0	0	0	0	7.05	31.81	32.43	33.16	32.87	31.77
10000	0	0	0	0	0	0	0	0.51	8.78	13.26	10.19	0
OASPL	64.43	66.28	67.1	67.68	68.28	68.61	69.23	69.55	69.78	70.3	70.57	70.87
PNL	72.62	74.86	76.15	77.21	78.13	78.69	79.16	79.4	79.59	79.94	80.03	80.05

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	55.81	56.1	56.44	59.55	59.53	59.53	59.4	58.16	58.62	57.78	56.76	122.46
100	57.05	57.08	58.91	56.74	59.39	59.92	60.45	60.75	60.61	59.94	58.63	123.4
130	56.46	58.63	59.16	59.44	59.64	60	61.84	61.79	61.26	60.04	58.19	124.12
160	59.39	59.47	59.73	59.93	60.95	60.61	59.8	58.99	58.64	57.23	55.64	123.69
200	59.38	59.78	60.81	60.88	60.71	61.41	60.95	60.11	58.55	57.16	54.01	124.15
250	62.38	62.46	62.52	62.1	62.02	61.19	60.37	59.65	57.85	54.87	50.66	124.98
320	59.53	59.58	59.78	59.58	59.8	59.24	58.56	56.69	54.37	51.58	47.54	122.83
400	59.73	60.24	60.21	60.04	59.24	58.75	57.45	55.82	53.08	49.43	44.57	122.89
500	60.47	60.17	59.71	58.99	58.15	56.52	54.65	52.42	49.77	46.1	41.37	122.26
630	59.65	59.61	58.87	57.87	56.69	55.57	53.74	51.06	47.94	43.81	38.82	121.48
800	59.56	59.45	59.04	57.91	56.4	54.69	52.62	49.96	46.43	42.07	36.47	121.52
1000	58.97	58.72	58.31	57.13	55.13	53.33	51.11	48.22	44.38	39.79	33.84	120.76
1300	58.61	58.46	58.01	58.45	54.3	52.27	50.17	47.03	42.82	37.81	31.45	120.27
1600	57.81	57.92	57.44	55.56	52.94	50.8	48.31	44.98	40.85	35.81	29.1	119.6
2000	57.1	56.85	56.46	54.68	51.85	49.29	46.53	42.94	38.24	32.86	25.35	118.71
2500	55.51	55.08	54.46	52.43	49.61	46.86	44.07	40.3	35.13	28.73	19.8	117.25
3200	53.55	52.37	51.3	49.33	46.51	43.59	40.19	35.69	30.1	23.13	0	115.14
4000	50.79	49.11	47.27	45.08	42.09	38.78	34.9	29.89	22.9	0	0	111.87
5000	46.17	44.4	42.33	39.42	35.72	31.7	27.02	19.15	0	0	0	107.07
6300	39.63	37.38	34.79	31.47	27.16	21.13	2.83	0	0	0	0	100.47
8000	29.76	26.65	22.43	14.6	0	0	0	0	0	0	0	90.81
10000	0	0	0	0	0	0	0	0	0	0	0	68.78
OASPL	71.13	71.22	71.13	70.77	70.47	70.04	69.62	68.86	67.79	66.32	64.34	134.47
PNL	79.88	79.55	79.01	77.68	75.85	74.52	72.92	71.14	68.55	65.36	61.11	80.19

NASA Lewis Allison AST Jet Noise Test 1996

rdg	450
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	988.44
m01	0.20051
pamb	14.1695
tamb	498.762
rhumid	58.93
winds1	0
nprc	1.743
nprb	1.819
ptc	24.6974
ptb	25.7743
wactc	3.063
wactb	18.516
ttc	1393.29
ttb	498.851
ptmix	25.6215
ttmix	625.611
mixpnd	0.7898
grsvixp	20698
badchan	(26)
bkgnd	445
escdate	05.Dec.96
esctime	15:03:03
DADSdate	97.08.18
DADStime	15:03:05
btchdate	05.Dec.96
btchtime	15:03:03

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:37:10 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	78.6	77.02	77.39	77.58	77.68	77.81	77.99	78.25	78.57	78.98	79.45	80.03
100	78.62	79.63	80.15	80.35	80.37	80.29	80.2	80.16	80.22	80.43	80.82	81.39
130	78.62	79.8	79.82	79.3	78.72	78.42	78.58	79.29	79.87	79.84	80.08	80.9
160	80.76	81.48	81.5	81.25	81	80.93	81.1	81.52	82.16	82.86	83.44	83.87
200	80.26	81.24	81.47	81.47	81.62	81.97	81.84	81.98	82.64	83.36	83.87	83.78
250	80.42	81.19	82.03	82.12	81.81	81.84	81.81	82.48	83.16	83.64	84.83	85.63
320	81.1	82.32	82.45	82.49	82.38	82.47	82.67	83.07	83.08	83.28	84.62	85.54
400	80.99	81.54	81.91	82.3	82.8	83.39	83.83	84	84.16	84.82	85.47	86.47
500	81.59	82.33	82.55	82.63	82.87	83.13	83.21	83.81	83.89	84.67	84.99	85.27
630	81.38	83.22	83	82.58	82.63	83.2	83.74	83.91	84.36	84.98	85.4	85.73
800	81.96	83.14	83.17	83.35	83.49	83.51	83.74	84.07	84.47	85.04	85.83	86.36
1000	82.7	84.07	83.99	83.76	83.73	83.92	84.35	84.62	84.91	85.63	86.22	86.67
1300	82.79	84.07	83.84	83.67	84.03	84.17	84.56	85.07	85.55	85.7	85.98	86.42
1600	82.75	84.09	83.99	83.87	84.15	84.32	84.52	84.79	84.8	85.23	86.17	86.76
2000	82.34	83.31	83.54	83.81	84.24	84.53	85.07	85.38	85.53	85.79	86.17	86.99
2500	81.53	82.29	82.94	83.58	84.1	84.49	85.2	85.36	85.31	85.57	86.14	86.81
3200	80.46	81.65	82.33	82.97	83.66	84.14	85.01	85.39	85.55	85.69	86.05	86.49
4000	79.38	80.96	81.83	82.55	83.1	83.63	84.45	84.49	84.78	85.07	85.84	85.98
5000	77.7	79.76	80.76	81.24	81.56	82.25	83.43	83.73	83.78	84.09	84.57	84.71
6300	76.39	78.57	79.72	80.29	80.55	80.97	82.22	82.73	83	83.45	83.63	83.62
8000	75.2	77.82	78.91	79.63	80.06	80.33	81.51	81.95	82.24	82.67	83.03	83
10000	72.95	74.81	76.12	77.53	78.51	78.6	78.78	79.27	79.53	79.73	80.31	79.46
OASPL	93.89	95.08	95.38	95.52	95.76	96.03	96.51	96.82	97.09	97.49	98.06	98.55

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.77	81.7	82.87	84.27	85.89	87.74	89.76	91.79	93.7	95.55	97.61	128.43
100	82.15	83.07	84.14	85.35	86.68	88.13	89.7	91.38	93.12	94.85	96.67	128.57
130	82.1	83.39	84.49	85.82	87.57	89.45	91.22	92.79	94.21	95.63	97.36	129.27
160	84.4	85.33	86.65	87.55	88.37	90	92.06	94	95.5	96.42	96.72	130.47
200	84.63	85.9	87.03	88.19	89.47	90.67	91.59	92.3	92.88	93.3	93.78	129.65
250	86.53	87.41	88.35	89.06	89.72	90.72	91.88	92.78	93.18	93.08	92.64	130.13
320	85.74	86.27	87.79	88.9	89.49	90.46	91.01	91.22	91.15	90.88	89.58	129.42
400	86.57	86.76	87.74	88.55	89.17	90.1	90.3	89.37	88.13	87.93	87.48	129.14
500	86.31	86.66	87.31	88.06	88.61	89.13	89.41	89.03	87.97	86.44	84.7	128.68
630	86.56	87.17	87.57	87.93	88.11	88.06	87.79	87.2	86.21	84.86	83.34	128.47
800	86.82	87.25	87.52	87.43	87.5	87.71	87	85.82	84.59	83.36	82.13	128.38
1000	87.36	87.99	87.75	86.93	86.38	86.23	86.1	85.3	83.89	82.53	81.48	128.5
1300	87.1	87.51	87.48	86.93	86.31	85.87	85.19	84.17	82.98	81.94	81.12	128.37
1600	87.51	87.89	87.76	86.96	86.2	85.88	85.12	83.84	82.43	81.44	80.89	128.41
2000	87.75	88.44	88.42	87.14	85.64	84.99	84.56	83.67	82.38	81.3	80.61	128.58
2500	87.11	87.68	88.08	86.92	85.25	84.62	84.08	83.2	82.11	81.29	80.82	128.28
3200	86.47	86.79	87.06	86.12	84.69	83.98	83.42	82.44	81.13	80.26	79.99	127.8
4000	85.86	85.52	85.49	84.82	83.65	82.92	82.38	81.18	79.58	78.88	78.95	126.98
5000	84.39	83.88	83.58	82.91	81.92	81.22	80.56	79.34	77.89	77.32	77.37	125.64
6300	83.23	82.69	82.34	81.44	80.14	79.36	79.03	78.04	76.52	75.83	75.68	124.53
8000	82.19	81.29	80.6	79.83	78.63	78.13	77.78	76.7	75.15	74.23	73.84	123.81
10000	78.65	78.14	77.88	76.97	75.92	74.91	74.61	73.59	71.72	70.48	70.06	120.83
OASPL	99	99.46	99.9	100.01	100.2	100.87	101.58	102.2	102.83	103.55	104.45	141.68

NASA Lewis Allison AST Jet Noise Test 1996

rdg	450
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	968.44
m01	0.20051
pamb	14.1695
tamb	496.762
rhumid	58.93
winds1	0
nprc	1.743
nprb	1.819
ptc	24.6974
ptb	25.7743
wactc	3.063
wactb	18.516
ttc	1393.29
ttb	496.851
ptmix	25.6215
ttmix	625.811
mixpnd	0.7896
grsvixp	20898
badchan	{26}
bkgnd	445
escdate	05.Dec.96
esctime	15:03:03
DADSdate	97.08.18
DADStime	15:03:03
btchdate	05.Dec.96
btchtime	15:03:03

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 11:37:19 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	55.65	58.84	58.86	58.71	58.53	58.29	60.53	58.21	58.69	60.01	59.77	59.65
100	58.02	56.5	59.07	58.78	58.32	57.24	58.74	60.09	59.33	58.76	58.64	60.96
130	58.18	58.96	58.57	59.85	59.37	59.06	61	59.17	59.54	61.04	60.99	60.93
160	58.28	60.58	60.63	60.31	61.48	61.46	61.77	61.34	61.48	62.95	63.22	63.5
200	58.15	59.09	60.74	60.69	61.08	60.62	61.58	61.71	61.77	62.53	62.25	62.83
250	58.66	59.93	61.29	62.01	61.92	62.2	62.41	62.05	63.28	63.33	64.96	65.58
320	58.35	59.49	59.79	60.26	61.34	62.29	62.62	62.47	62.41	62.75	62.87	63.94
400	57.89	59.41	60.36	60.87	61.27	61.62	61.93	63.08	63.25	63.61	64.25	64.69
500	57.36	59.65	59.86	59.96	60.38	61.29	61.96	62.35	62.67	63.27	63.46	63.66
630	57.61	58.98	59.61	60.27	60.81	61.06	61.58	62.25	62.67	63.38	63.68	63.56
800	57.42	59.91	60.13	60.47	60.83	61.26	61.73	61.97	62.36	62.6	63.3	63.74
1000	57.07	59.06	59.45	59.76	60.32	60.77	61.37	62.08	62.37	62.96	63.13	63.2
1300	56.6	58.47	58.97	59.35	60.13	60.5	60.8	62.01	62.39	62.39	62.5	62.59
1600	55.63	57.5	58.12	58.69	59.39	59.9	60.7	61.18	61.18	61.4	62.15	62.64
2000	53.63	55.35	56.42	57.46	58.49	59.1	59.82	61.07	61.24	61.34	61.51	61.85
2500	50.74	52.77	54.16	55.3	56.33	57.17	58.29	60.06	60.01	60.17	60.46	60.64
3200	47.08	49.41	51.11	52.6	53.7	54.45	55.42	58.69	58.71	58.59	58.63	58.66
4000	41.38	44.5	46.44	47.74	48.79	49.83	51.08	55.56	55.78	55.87	55.97	55.63
5000	33.05	36.66	39.17	40.79	41.82	42.86	44.45	51.38	51.24	51.28	51.23	50.86
6300	19.94	25.96	29.24	31.31	32.72	33.71	35.45	45.02	45.19	45.32	45.05	44.24
8000	0	0	0	4.74	14.26	17.29	19.25	36.1	36.34	36.37	35.91	34.86
10000	0	0	0	0	0	0	0	20.22	19.97	19.31	17.96	12.89
OASPL	69.14	70.83	71.52	71.89	72.34	72.64	73.35	73.77	73.97	74.47	74.83	75.22
PNL	77.61	79.52	80.44	81.2	81.99	82.5	83.26	83.71	83.8	84.09	84.37	84.58

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.66	59.86	60.22	62.8	62.76	62.85	62.87	63.2	63.57	63.64	63.19	126.97
100	61.27	61.35	61.39	61.66	64.72	65.67	66.34	66.57	66.38	65.84	65.01	128.91
130	60.97	63.55	64.65	64.88	64.58	65.09	67.42	68.08	68.1	67.16	65.09	130.08
160	64.58	64.52	64.52	64.53	65.78	65.67	65.28	65.05	65.37	63.94	61.64	129.1
200	63.2	63.99	65.21	65.49	65.53	66.52	66.45	66.01	64.7	63.68	60.7	129.16
250	66.16	66.17	67.14	67.09	66.91	66.81	66.12	65.27	63.45	60.53	56.57	129.65
320	64.05	64.16	65.2	65.3	65.15	64.78	64.25	62.19	59.84	57.52	53.63	127.83
400	64.66	64.47	64.34	64.83	64.66	64.75	63.89	61.93	58.5	54.5	49.67	127.73
500	63.96	63.9	64	63.85	63.44	62.15	60.63	58.87	56.05	52.12	46.83	126.57
630	63.83	64.06	63.78	62.98	62.04	61.18	59.3	58.55	53.25	48.89	43.65	126.1
800	63.75	63.96	63.48	62.22	60.98	59.78	57.94	55.22	51.45	47	41.27	125.74
1000	63.45	63.34	62.59	61.13	59.42	58	56.08	53.11	49.23	44.69	38.72	125.1
1300	63.09	62.72	61.8	60.49	58.97	57.24	54.79	51.58	47.57	42.78	36.39	124.58
1600	62.89	62.89	61.85	59.92	57.55	55.61	53.37	50.02	45.76	40.75	34.09	124.04
2000	61.98	62.01	61.39	59.18	56.33	54.09	51.55	48.26	43.97	38.62	31.19	123.26
2500	60.22	60	59.25	57.12	54.43	52.02	49.39	45.79	40.92	34.93	26.7	121.59
3200	58.01	57.3	56.82	54.54	51.53	48.85	45.98	41.73	36	29.26	18.42	119.37
4000	54.66	53.25	51.94	49.8	46.69	44	40.49	35.49	26.89	19.86	0	115.79
5000	49.41	47.82	48.14	43.52	40.18	36.63	32.71	26.91	18	0	0	110.61
6300	42.63	40.7	38.47	35.25	31.26	26.79	20.82	0	0	0	0	103.91
8000	32.62	29.76	26.39	21.54	12.61	0	0	0	0	0	0	94.29
10000	0	0	0	0	0	0	0	0	0	0	0	76.51
OASPL	75.47	75.61	75.75	75.51	75.38	75.28	75.14	74.82	73.86	72.67	70.79	139.37
PNL	84.4	84.22	83.6	82.41	80.86	80.12	78.93	77.1	74.66	72.17	68.3	84.96

NASA Lewis Allison AST Jet Noise Test 1996

rdg	447
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
ambc	35.02
ambb	78.39
scale	4
vid	798.76
m01	0.30002
pamb	14.1253
tamb	499.454
rhumid	60.39
winds1	0
nprc	1.392
nprb	1.439
ptc	19.6624
ptb	20.3263
wactc	2.486
wactb	13.575
ttc	1151.85
ttb	494.399
ptmix	20.2235
ttmix	596.178
mbgnd	0.667243
grsvbp	12628.9
badchan	(26)
bkgnd	446
eacdate	05 Dec.96
eactime	14:36:48
DADSdate	97.06.25
DADStime	14:36:48
btchdate	05.Dec.96
btchtime	14:36:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 11:08:37 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency i	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	65.59	65.36	65.22	65.35	66.23	67.36	68.78	68.5	69.53	69.48	69.34	69.22	69.12	69.06	68.11	69.31	69.7	70.21	71.03	72.29	73.54	74.71	76.53	112.3
100	67.1	66.7	70.16	71.12	71.13	70.2	69.4	69.73	70.06	69.96	69.8	69.81	69.92	69.77	69.88	70.32	70.8	71.78	72.93	73.75	74.61	75.96	78.11	113.84
130	62.81	66.73	66	66.08	66.85	66.15	66.43	67.17	67.66	68.01	68.59	69.29	70.05	70.9	71.41	71.32	71.18	71.99	73.34	74.33	74.83	75.57	77.33	112.94
160	65.26	67.47	66.08	65.63	66.49	67.6	66.73	69.56	70.24	70.66	70.83	70.77	70.44	70.01	69.85	70.1	70.5	71.6	73.05	74.18	75.01	75.5	76.55	113.36
200	66.71	67.58	68.69	69.66	70.03	69.39	69.58	69.39	70.86	70.65	70.44	71.94	70.99	70.58	71.88	73.33	73.26	73.03	73.06	73.36	73.94	74.77	75.73	114.17
250	68	70.2	71.9	72.42	71.94	72.31	72.3	73.15	73.77	74.06	74.29	74.9	75.41	75.94	77.09	76.01	77.55	77.16	76.97	76.58	76.49	76.92	76.97	117.77
320	69.56	72.45	73.29	72.96	72.94	72.96	73.14	74.1	74.17	73.6	74.05	73.97	74.08	74.86	75.82	76.41	76.33	75.92	75.5	75.17	74.35	73.17	73.01	117.15
400	69.74	71.69	73.84	73.06	72.59	73.64	74.02	74.63	74.44	74.16	75.59	75.96	75.36	75.39	75.76	75.93	75.95	75.7	74.91	73.64	72.76	72.51	72.12	117.43
500	68.96	72.08	73.72	73.3	73.44	74.37	74.48	74.41	74.73	74.64	75.56	75.56	75.74	75.6	76.2	76.65	76.43	76.15	75.76	74.76	73.17	71.42	70.51	117.75
630	70.08	72.65	73.58	72.79	73.76	73.17	74.23	74.09	74.53	75.06	74.77	74.74	75.07	75.06	74.93	74.85	74.35	73.62	72.93	72.33	71.47	70.48	70.49	116.92
800	71	74.11	74.21	74.16	74.6	74.34	74.73	74.63	75.02	75.36	75.96	76.12	76.47	76.51	76.46	76.36	75.73	74.55	73.26	72.29	71.46	70.55	69.96	117.92
1000	71.09	73.96	73.1	74.17	74.09	74.45	74.91	74.84	75.01	74.87	75.55	75.34	75.53	75.91	75.82	75.42	74.86	73.96	72.71	71.4	70.16	69.24	69	117.45
1300	70.87	73.41	73.36	73.84	74.33	74.39	74.22	74.45	74.79	74.54	74.71	74.65	74.67	74.8	75.07	74.69	73.55	72.76	72.52	71.69	70.57	69.52	68.76	116.95
1600	71.31	73.45	74	74.21	74.66	74.27	74.3	74.53	74.6	73.83	74.13	74.9	75.32	74.93	74.91	75.04	74.11	72.85	71.96	71.3	70.36	69.05	68.62	117
2000	71.64	73.89	74.23	74.67	75.32	74.96	75.23	75.36	75.26	74.76	74.57	74.75	74.74	74.55	74.55	74.5	73.51	72.06	71.1	71.03	70.63	69.2	68.45	117.22
2500	71.47	74.01	74.76	75.11	76.55	75.45	75.65	75.6	75.46	75.12	74.9	74.45	74.31	73.93	73.83	73.63	72.33	71.06	70.26	69.86	69.1	67.87	67.62	117.26
3200	71.86	73.73	74.51	75.43	76.9	75.86	76.77	76.33	76.36	75.96	75.85	75.42	75.2	74.43	73.91	73.43	71.91	70.43	69.49	68.96	68.05	66.74	66.93	117.76
4000	71.45	73.29	74.37	75.43	76.4	75.82	76.92	76.07	76.2	76.06	75.94	75.65	75.66	74.29	73.61	73.42	71.74	70.26	69.53	68.93	67.79	66.19	66.46	117.7
5000	70.24	72.16	73.39	74.63	75.41	75.16	76.01	75.62	75.4	75.02	75.46	75.72	74.94	73.52	72.95	72.63	70.94	69.53	68.91	68.36	67.17	65.53	66.03	116.97
6300	70	71.62	72.81	74.04	74.97	74.57	75.53	75.4	75.4	75.14	75.19	75.03	74.49	73	72.34	72.02	70.07	68.66	68.56	68.04	66.6	65.34	66.07	116.57
8000	69.92	71.79	72.96	73.84	75.02	74.31	75.46	75.11	75.4	75.21	75.46	75.34	74.56	72.43	71.24	70.8	68.99	68.23	68.44	67.93	66.45	64.82	65.72	116.46
10000	69.29	70.37	70.53	71.99	74.39	73.44	73.33	73.12	72.96	72.79	73.67	72.09	71.7	69.84	68.65	68.61	67.27	66.15	65.76	65.57	64.39	62.48	63.06	114.45
OASPL	83.27	85.47	86.21	86.63	87.36	87.03	87.54	87.51	87.66	87.49	87.77	87.79	87.7	87.39	87.48	87.62	86.99	86.41	86.11	85.85	85.57	85.5	86.27	129.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	447
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nacelld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	796.76
m01	0.30002
pamb	14.1253
tamb	499.454
rhumid	60.39
winds1	0
nprc	1.392
nprb	1.439
ptc	19.6624
ptb	20.3263
wactc	2.486
wactb	13.575
ttc	1151.95
ttb	494.399
ptmix	20.2235
ttmix	596.178
mixpnd	0.687243
gravixp	12828.9
badchan	(26)
bkgnd	448
escdate	05.Dec.96
esctime	14:36:48
DADSdate	97.06.25
DADStime	14:36:48
btchdate	05.Dec.96
btchtime	14:36:48

**Scenario. Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 11:08:47 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (ft)	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	39.59	37.14	34.57	50.86	50.29	48.9	47.59	49.46	50.41	49.87	49.72	49.8
80	43.46	44.62	47.31	45.99	46.45	45.98	47.02	49.66	48.42	47.46	49.29	48.61
100	43.42	46.28	44.09	44.97	45.36	46.89	47.41	47.06	47.21	49.26	48.84	50.03
130	42.98	44.86	47.24	46.94	48.39	49.58	48.34	49.38	49.45	50.2	49.48	49.33
160	46.83	46.54	47.58	48.85	49.73	51.27	52.27	49.09	51.98	50.97	51.2	52.93
200	46.67	49.88	52.14	53.03	52.68	52.85	52.86	52.72	54.2	54.69	55.27	54.99
250	46.46	49.31	50.26	50.13	50.65	52.2	52.94	53.5	52.73	51.48	51.05	51.79
320	46.24	49.07	51.62	51.42	51.37	52.75	53.11	53.71	53.84	53.46	54.74	54.23
400	45.97	48.61	51.6	51.1	51.93	51.68	52.56	53.14	53.43	53.32	53.98	53.99
500	45.44	49.33	50.39	50.3	51.54	51.43	52.49	52.46	52.89	53.66	53.43	53.44
630	46.22	49.98	50.17	51.08	51.56	51.85	52.35	52.54	52.8	52.85	53.08	52.52
800	45.22	48.8	48.68	49.92	50.44	50.9	51.05	52.28	52.33	51.86	52.12	51.92
1000	44.62	48.06	48.92	49.32	50.27	50.46	50.57	51.4	51.71	51.25	51.05	50.7
1300	44.18	46.96	48.28	49.62	50.36	50.28	50.73	50.92	51.02	50.15	50.29	50.75
1600	43.16	46.32	47.59	48.42	50.11	49.81	50.02	51.05	50.88	50.42	49.97	49.36
2000	41.25	44.89	46.38	47.59	49.87	48.86	50.02	50.29	50.16	49.78	49.55	48.64
2500	38.79	41.53	43.59	45.17	48.88	46.61	47.91	49.57	49.62	49.09	48.68	47.93
3200	33.78	37.18	38.07	41.14	42.61	42.57	43.66	47.11	47.15	46.69	46.4	45.97
4000	25.83	29.52	32.14	34.21	36.05	36.4	37.46	43.28	42.95	42.24	42.25	41.8
5000	0	15.98	21.21	24.97	27.2	27.28	29.3	37.58	37.55	37.14	36.81	36.06
6300	0	0	0	0	0	0	0	28.05	29.41	28.79	28.35	26.8
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	57.02	59.89	61.2	61.96	62.6	62.92	63.38	63.88	64.18	63.99	64.21	64.16
PNL	66.31	69.45	70.81	71.85	73.25	73.08	73.88	73.94	74.07	73.68	73.56	73.16

distance: (ft)	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	50.72	48.38	46.91	46.28	45.34	48.27	46.3	45.98	44.75	43.25	45.87	112.8
80	47.11	48.91	48.37	47.96	47.18	48.5	48.35	47.54	46.49	45.7	45.08	112.7
100	49.08	47.81	48.67	48.46	47.36	47.98	48.55	48.14	47.15	45.82	45.01	112.78
130	48.6	48.46	48.43	50.56	49.28	47.65	48.18	47.91	46.98	45.37	43.8	113.39
160	51.92	52.83	53.1	54.7	53.68	53.2	48.02	46.92	45.78	44.53	43.94	115.85
200	54.59	54.9	55.38	54.73	53.82	51.84	51.79	49.96	48.84	46.82	43.75	117.81
250	51.6	51.79	52.14	52.26	51.84	50.61	50.2	48.27	45.8	42.5	39.3	115.66
320	53.92	53.53	53.34	53.31	52.38	51.16	48.99	46.31	43.76	41.09	37.89	116.8
400	53.48	52.8	52.3	51.05	49.4	47.68	49.31	46.88	43.33	39.09	34.61	115.87
500	53.62	52.95	52.28	51.55	50.04	48.08	45.87	43.67	40.98	37.31	33.68	115.48
630	52.13	52.11	51.74	50.57	49.02	46.77	45.54	42.83	39.73	35.95	31.11	115.02
800	51.54	51.05	50.39	49.2	46.84	44.75	44.18	41	37.45	33.37	28.49	113.98
1000	50.8	50.03	49.26	48.8	46.78	44.22	42.96	40.33	36.69	32.3	26.47	113.28
1300	50.18	49.31	48.6	47.57	45.35	42.53	41.72	38.93	35.35	30.21	24.23	112.73
1600	48.96	47.89	47.02	45.9	43.24	40.49	39.72	37.5	34.17	28.66	21.8	111.97
2000	47.93	46.78	45.62	44.17	41.35	38.21	37.87	34.96	30.88	25.2	16.12	111.1
2500	47.19	45.4	43.82	42.21	38.19	35.87	35.25	32	27.54	20.83	0	109.63
3200	44.74	42.44	40.74	39.01	35.34	31.62	32.67	29.04	23.75	3.17	0	108.69
4000	40.29	37.8	35.85	33.8	29.79	25.65	28.21	23.83	10.85	0	0	101.97
5000	34.42	31.26	28.71	25.8	19.18	0	20.03	0	0	0	0	95.87
6300	24.23	18.4	2.12	0	0	0	0	0	0	0	0	86.55
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	63.76	63.4	63.16	62.91	61.64	60.55	58.49	57.89	56.17	54.18	52.9	126.77
PNL	72.5	71.41	70.52	69.52	67.57	65.68	63.7	61.02	57.51	53.43	48.64	71.53

NASA Lewis Allison AST Jet Noise Test 1996

rdg	448
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.88
m01	0.30018
pamb	14.1213
tamb	498.816
rhumid	80.01
winds1	0
nprc	1.545
nprb	1.613
ptc	21.8174
ptb	22.7777
wactc	2.985
wactb	16.069
ttc	1295.12
ttb	493.755
ptmix	22.6272
ttmix	819.297
mixpnd	0.771153
grsvlxp	17927.5
badchan	[26]
bkgnd	446
escdate	05.Dec.96
esctime	14:41:33
DADSdate	97.08.25
DADStime	14:41:33
btchdate	05.Dec.96
btchtime	14:41:33

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 11:11:22 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	68.91	69.46	70.45	68.98	71.09	72.75	72.81	72.91	73.01	73.03	74.14	74.46	73.07	74.48	76.32	76.48	76.37	77.19	78.76	80.34	81.94	83.83	86.56	118.73
100	71.4	71.58	71.39	72.97	71.7	71.74	72.38	72.66	72.3	73.01	73.22	72.93	73.68	75.75	76.82	76.91	77.25	77.79	78.53	79.55	81.09	83.31	86	118.67
130	71.24	71.48	72.65	70.92	71.06	70.7	71.33	71.77	71.62	72.42	72.71	72.46	74.19	74.99	75.67	76.85	77.52	78.46	79.78	80.89	81.81	82.95	85.27	118.85
160	71.36	71.39	73.52	73.57	72.74	71.77	72.92	73.11	72.59	73.06	75	75.83	74.14	74.84	76.43	77.34	78.75	79.69	80.15	80.78	81.94	83.67	85.26	119.42
200	71.94	73.49	72.78	75.03	73.88	74.04	75.1	74.81	75.1	75.92	77.09	77.13	76.69	77.28	78.48	79.63	79.85	80.28	81.03	81.64	82.25	83.01	83.7	120.56
250	74.15	75.53	76.72	75.74	75.39	76.33	75.82	75.72	75.24	76.81	77.76	78.39	78.94	79.76	80.1	80.39	81.37	82.2	82.43	81.96	81.82	82.47	83.22	121.67
320	74.9	75.55	76.72	76.1	75.61	75.59	76.28	76.7	77.56	77.74	77.21	77.64	78.14	78.67	79.67	80.4	80.35	80.14	80.33	80.74	81.03	80.65	80.42	121.12
400	73.69	75.82	76.5	76.51	76.47	76.02	77.32	77.95	77.92	77.99	78.6	78.68	78.83	78.79	79.3	80.12	80.21	79.98	79.71	79.43	79.1	78.78	78.67	121.16
500	74.87	77.31	77.09	76.47	76.57	77.27	77.59	78.23	78.72	78.72	79.38	79.79	80.23	80.29	80.4	80.49	80.09	80.06	80.21	79.58	78.72	78.08	77.68	121.79
630	74.79	77.07	76.65	76.76	77.18	77.12	77.62	77.57	77.76	78.37	78.55	78.87	79.38	79.34	79.34	79.56	79.27	78.46	77.93	78.01	77.77	76.78	76.06	121.03
800	76.13	78.79	78.17	77.94	78.19	78.15	78.44	78.8	79.32	79.61	79.51	79.67	79.83	80.26	80.33	79.87	79.1	78.28	77.7	77.25	76.76	76.1	75.63	121.61
1000	78.23	79.96	77.87	78.64	78.07	78.03	78.19	79.13	79.5	79.33	79.5	79.67	79.76	80.11	80.49	80.36	79.42	78.42	77.75	77.32	76.57	75.39	75.07	121.95
1300	76.76	78.02	77.19	77.86	78.31	78.25	78.66	79.09	79.56	79.7	79.94	80.87	80.05	79.89	80.21	79.84	78.86	77.76	77.29	76.62	75.71	74.78	74.73	121.82
1600	76.36	77.65	77.75	78	78.48	78.95	78.89	79.06	79.22	79.22	79.33	79.92	80.15	80.33	80.49	80.02	78.63	77.41	76.85	76.38	75.65	74.69	74.37	121.76
2000	76.04	77.14	77.43	78.06	78.87	79.13	79.93	79.91	79.47	79.35	79.48	79.82	79.99	80.27	80.57	80.18	78.51	77.27	76.67	76.05	75.26	74.39	74.34	121.88
2500	75.78	77.01	77.88	78.42	79.66	79.44	80.14	80.04	79.44	79.34	79.77	79.72	79.81	79.53	79.48	79.4	78.16	76.68	75.86	75.38	74.94	74.05	73.91	121.78
3200	75.95	76.57	77.05	78.36	79.78	79.46	80.12	80.1	80.19	79.96	79.88	80.27	79.76	79.09	78.95	78.65	77.2	75.8	75	74.81	73.96	72.91	72.84	121.72
4000	75.46	76.54	76.89	77.79	78.31	79.02	80.03	79.89	79.57	79.35	79.84	80.19	79.77	78.8	77.91	77.5	76.18	74.6	73.65	73.5	72.99	71.7	71.76	121.27
5000	74.37	75.58	76.21	76.83	77.9	77.94	79.03	79.03	78.73	78.75	79.15	79.47	79.11	77.86	77.17	76.62	74.92	73.38	72.62	72.27	71.47	70.27	70.09	120.41
6300	74.02	74.99	75.81	75.99	76.77	76.81	77.97	78.06	77.89	77.89	77.94	78.63	78.31	77.24	76.83	75.96	73.87	72.05	71.33	71.31	70.78	69.51	69.96	119.52
8000	73.64	74.74	75.47	75.81	76.5	75.85	77.12	77.32	77.41	77.1	77.43	78.64	77.89	76.55	75.86	74.95	72.61	70.77	70.22	70.51	70.13	68.75	68.64	118.96
10000	72.61	72.89	73.08	73.56	75.11	74.25	74.21	74.56	74.51	73.77	74.63	75.06	74.83	73.76	73.16	72.54	70.32	67.9	66.87	67.66	67.64	65.82	65.31	116.34
OASPL	88.13	89.51	89.58	89.92	90.42	90.36	91.02	91.19	91.23	91.31	91.64	92.06	91.96	91.95	92.19	92.23	91.74	91.45	91.53	91.69	91.97	92.6	93.97	134.19

NASA Lewis Allison AST Jet Noise Test 1996

rdg	446
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.88
m01	0.30018
pamb	14.1213
tamb	498.816
rhumid	60.01
windel1	0
nprc	1.545
nprb	1.613
ptc	21.8174
ptb	22.7777
wactc	2.985
wactb	16.069
ttc	1295.12
ttb	493.755
ptmix	22.6272
ttmix	619.297
mupnd	0.771153
grsvixp	17927.5
badchan	(26)
bkgnd	446
eacdate	05.Dec.96
eactime	14:41:33
DADSdate	97.08.25
DADStime	14:41:33
btchdate	05.Dec.96
btchtime	14:41:33

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 11:11:31 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (i	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	48.29	47.91	48.22	51.59	51.13	49.51	50.06	52.87	53.68	53.04	53.9	52.3
80	47.5	49.95	50.03	50.74	51.59	50.78	51.97	52.58	51.06	50.8	52.72	51.74
100	49.86	50.04	50.77	51.04	49.73	50.96	50.46	51.66	51.15	52.49	51	54.59
130	49.27	49.61	52.39	52.75	53.36	53.8	54.26	52.93	51.83	52.98	54.33	54.86
160	49.71	52.3	51.63	53.59	53.64	54.61	55.79	54.53	54.66	54.97	56.45	56.46
200	52.47	54.08	56.22	56.08	55.52	55.84	56.03	55.29	55.86	56.36	56.42	56.62
250	52.16	53.1	53.84	53.71	54.69	54.21	56.13	56.09	56.38	55.65	55.44	55.87
320	50.36	53.72	54.46	54.86	54.75	55.97	56.37	57.03	57.45	57.36	57.83	57.31
400	51.21	54.07	54.46	54.06	55.2	65.14	55.82	56.96	57.39	57.36	58	58.24
500	50.32	53.84	53.71	54.39	54.76	55.38	56.98	55.91	56.13	56.76	57.02	56.95
630	51.83	56.09	55.05	56.25	55.64	55.53	55.81	56.69	57.08	57.32	56.67	57.15
800	51.51	53.34	52.68	54.29	54.14	54.58	55.33	56.57	56.78	56.35	56.45	56.18
1000	50.44	52.36	52.57	53.56	54.57	56.08	56.1	56.03	56.55	56.51	56.56	57.2
1300	49.08	51.08	51.88	52.74	53.75	54.65	55.5	55.46	55.58	55.54	55.34	55.56
1600	47.52	49.5	50.47	51.94	53.55	53.76	54.67	55.61	55.08	54.81	54.9	54.58
2000	45.61	47.77	49.27	50.57	52.38	52.54	53.41	54.74	54.16	53.96	54.09	53.69
2500	42.79	44.57	45.96	47.94	49.92	49.7	51.01	53.4	53.44	52.96	52.52	52.59
3200	37.97	40.35	41.79	43.33	45.23	45.5	46.77	50.76	50.49	49.98	50.28	49.97
4000	30.03	32.99	35.05	38.57	38.08	38.71	40.2	46.7	46.23	45.97	45.79	45.44
5000	18.35	21.69	24.87	26.96	26.95	29.2	31.12	40.39	40.14	39.77	39.43	38.57
6300	0	0	0	0	0	0	4.94	31.46	31.48	30.68	30.12	30.25
8000	0	0	0	0	0	0	0	7.86	2.53	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	62.29	64.52	64.99	65.64	66.11	66.42	67.11	67.69	67.81	68	68.21	68.34
PNL	71.27	73.44	74.25	75.4	76.52	76.79	77.64	78	77.87	77.72	77.83	77.72

distance: (i	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	53.07	53.52	53.73	52.94	52.02	54.35	54.02	54.02	53.14	52.36	55.94	118.32
80	51.88	55.07	55.05	54.63	53.49	54.81	54.04	53.31	52.88	52.88	52.61	118.21
100	53.78	52.24	54.12	54.78	54.89	55.92	54.89	54.71	54.07	53.27	53.06	118.68
130	54.12	55.47	55.51	56.95	56.11	55.42	55.24	54.51	53.81	53.28	52.07	119.49
160	55.84	56.53	56.43	57.49	57.5	58.26	56.05	55.2	54	52.86	51.29	120.54
200	58.51	58.75	58.88	58.28	57.6	55.91	57.27	55.34	54.09	52.44	50.17	121.67
250	55.43	55.51	56.04	56.74	56.17	55.03	54.95	53.85	52.58	49.98	46.79	119.83
320	57.61	57.52	57.59	57.09	55.88	54.98	53.85	52.1	50.13	47.4	44.42	120.37
400	58	57.23	56.52	55.63	54.41	52.5	53.7	51.67	48.89	45.75	41.75	120
500	56.8	56.5	56	55.01	53.33	51.62	50.79	49.37	47.07	43.39	39.08	119.12
630	56.77	56.56	56.39	55.47	53.61	51.36	49.96	47.76	45.12	41.68	37	119.47
800	55.59	56.33	55.01	53.9	51.75	49.71	49.25	46.92	43.8	39.36	34.57	118.38
1000	56.21	55.57	55.04	53.78	51.25	48.65	47.75	45.24	41.85	37.54	32.33	118.32
1300	55.13	54.87	54.47	53.11	50.35	47.81	46.55	44	40.6	35.69	29.96	117.47
1600	54.44	53.53	52.71	51.88	49.14	46.17	45.4	42.53	38.88	33.9	27.66	116.6
2000	53.09	52.01	50.94	49.55	46.77	43.64	43.24	40.46	36.72	31.39	24.39	115.34
2500	51.38	49.94	48.4	46.53	43.81	40.38	40.77	37.65	33.39	27.24	17.85	113.46
3200	48.95	46.56	44.88	42.78	39.39	35.58	36.92	33.65	28.95	21.01	0	110.27
4000	44.3	42.03	38.93	37.7	33.48	29	31.98	27.94	21.19	0	0	106.49
5000	38.1	35.5	33.15	30.11	24.81	15.98	24.38	17.02	0	0	0	98.9
6300	27.83	24.14	20.1	8.29	0	0	0	0	0	0	0	89.11
8000	0	0	0	0	0	0	0	0	0	0	0	66.11
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	67.98	67.9	67.77	67.43	66.35	65.77	65.26	64.09	62.82	61.47	61.1	131.28
PNL	77.15	76.38	75.63	74.61	72.49	70.57	68.97	66.84	64.12	60.97	57.42	75.94

NASA Lewis Allison AST Jet Noise Test 1996

rdg	449
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	958.93
m01	0.30036
pamb	14.1148
tamb	498.659
rhumid	61.13
winds1	0
nprc	1.74
nprb	1.822
ptc	24.5598
ptb	25.7172
wactc	3.033
wactb	18.581
ttc	1376.98
ttb	494.805
ptmix	25.5548
ttmix	618.425
mixpnd	0.786501
grsvixp	20726.3
badchan	(26)
bkgnd	446
escdate	05.Dec.96
esctime	14:51:40
DADSdate	97.08.25
DADStime	14:51:40
blchdate	05.Dec.96
blchtime	14:51:40

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 27 11:14:53 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.58	74.4	74.99	74.46	74.27	75.55	75.58	75.01	75.41	77.24	77.79	77.39
100	75.3	77.09	76.8	76.98	77.16	76.7	76.57	76.11	77.35	77.87	78.42	77.26
130	76.11	76.72	76.22	76.57	76.56	75.71	75.7	76.35	76.4	75.9	75.67	76.5
160	75.82	77.79	76.76	77.84	77.84	77.59	78.02	77.8	77.99	79.08	79.22	80.72
200	76.19	78.03	76.01	78.52	78.45	78.4	79.05	79.47	79.83	80.41	80.73	81.26
250	77.77	79.25	79.27	79.23	78.96	78.73	80.59	79.76	80.8	81.34	80.95	82.12
320	77.93	79.64	80.79	80.09	80.33	79.64	80.48	79.86	80.5	80.99	81.31	81.81
400	79.1	80.27	80.63	79.72	80.43	80.2	80.83	81.5	81.44	81.44	82.39	82.06
500	79.89	81.1	80.82	80.49	80.27	81.22	81.51	81.11	80.78	81.67	82.58	83.1
630	79.43	80.87	80.58	81.17	80.83	81.13	81.01	81.29	82.22	82.4	82.37	83.05
800	79.78	81.34	81.51	81.66	81.56	81.8	81.8	82.13	82.57	82.92	83.1	83.76
1000	81.18	82.6	82.32	82.54	82.09	82.1	82.4	82.46	82.78	83.01	83.99	84.47
1300	82.14	82.46	82.28	81.97	82.27	82.26	82.98	82.96	83.24	83.51	83.66	84.38
1600	82.02	82.71	83.07	83.09	82.88	83.11	83.17	83.3	83.78	83.8	84.23	84.82
2000	81.47	82.2	82.29	82.89	83.23	83.3	83.58	83.56	83.64	83.77	84.31	84.97
2500	80.66	81.33	81.73	82.47	83.56	83.48	84.01	83.89	83.69	83.65	84.31	84.89
3200	80.36	80.65	81.6	82.36	83.29	83.03	83.97	84.01	84.14	84.17	84.45	84.66
4000	79.19	80.28	81.06	81.89	82.71	82.52	83.71	83.41	83.53	83.66	84	84.35
5000	78.19	78.92	80.04	80.77	81.04	81.29	82.82	82.79	82.49	82.73	83.18	83.12
6300	77.41	77.98	79.49	79.81	80.51	79.9	81.95	82.08	82.03	82.01	81.85	82
8000	76.61	77.31	78.97	79.06	80.27	78.93	81.35	81.12	81.35	81.42	81.55	81.52
10000	75.13	75.03	76.55	76.56	79.19	77.28	78.83	78.49	78.69	78.38	79.05	77.81
OASPL	92.48	93.45	93.81	93.96	94.34	94.23	94.96	94.92	95.14	95.37	95.75	96.13

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.32	77.8	78.85	80.38	82	83.09	84.01	85.42	86.98	88.88	91.38	123.18
100	78.21	79.8	80.23	80.33	81.96	83.43	84.61	86.35	88.51	90.96	93.82	124.52
130	76.53	78.25	78.5	80.67	82.2	83.55	84.99	86.46	88.26	90.66	93.59	124.22
160	80.61	81.04	82.19	83.04	83.34	84.25	85.87	87.56	89.19	90.88	92.81	125.4
200	81.5	82.39	82.29	81.9	83.16	84.75	85.86	86.62	87.7	89.39	91.07	125.21
250	82.37	83.1	84.22	85.03	85.71	86.37	87.27	88.31	88.87	89.02	89.91	126.31
320	81.69	83.14	84.35	84.3	84.53	85.92	87.47	87.66	87.48	87.72	87.99	125.96
400	83.12	83.81	83.91	84.21	84.88	85.62	86.12	86.59	86.46	85.59	84.8	125.84
500	83.16	83.41	84.38	85.13	84.49	84.72	85.59	85.63	85.04	84.47	84.04	125.77
630	83.66	84.04	84.38	84.45	84.11	84.02	84.11	83.87	83.42	82.9	82.72	125.56
800	84.63	84.51	84.47	84.69	83.99	83.4	83.16	82.94	82.57	81.76	81.19	125.85
1000	84.46	85.21	85.47	84.65	83.96	83.15	82.27	81.64	81.31	81.17	80.87	126.19
1300	85.01	85.55	85.31	84.45	83.63	82.59	81.67	81.29	80.92	80.25	79.98	126.24
1600	85.45	85.83	85.51	84.84	83.59	82.32	81.46	81.13	80.61	79.73	79.49	126.59
2000	85.41	86.16	86.27	85.24	83.86	82.51	81.85	81.41	80.61	79.53	79.46	126.73
2500	85.05	85.53	85.56	84.89	83.86	82.38	81.51	81.09	80.45	79.44	79.43	126.53
3200	84.66	84.74	84.81	84.36	82.96	81.47	80.52	80.12	79.44	78.33	78.59	126.26
4000	83.95	83.44	83.22	82.85	81.73	80.67	79.96	79.27	78.25	77.07	77.48	125.54
5000	82.49	81.76	81.34	80.84	79.78	78.67	77.84	77.24	76.38	75.48	76.22	124.26
6300	81.45	80.83	80.36	79.57	78.1	76.95	76.32	75.78	74.92	74.03	75.08	123.28
8000	80.62	79.72	78.91	77.83	76.73	75.77	75.19	74.74	73.81	72.65	73.81	122.53
10000	76.77	76.27	75.91	75.4	74.42	73.01	71.89	71.54	70.67	69.14	70.04	119.89
OASPL	96.37	96.72	96.91	96.75	96.44	96.55	97.05	97.62	98.23	99.21	100.95	138.76

NASA Lewis Allison AST Jet Noise Test 1996

rdg	449
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH25
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	958.93
m01	0.30036
pamb	14.1148
tamb	498.859
rhumid	61.13
winds1	0
nprc	1.74
nprb	1.822
ptc	24.5598
ptb	25.7172
wactc	3.033
wactb	18.581
ttc	1376.98
ttb	494.605
ptmix	25.5548
ttmix	818.425
mixprd	0.786501
gravisp	20726.3
badchan	{26}
bkgnd	446
eacdate	05.Dec.96
eactime	14:51:40
DADSdate	97.08.25
DADStime	14:51:40
btchdate	05 Dec.96
btchtime	14:51:40

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 11.15:03 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	53.04	54.59	54.07	56.77	55.55	54.98	54.08	54.97	57.36	57.22	57.24	56.27
80	51.74	55.04	55.42	55.41	57	54.82	56.13	56.03	55.74	55.22	56.63	54.88
100	54.5	55.32	53.99	55.84	54.4	56.52	56.2	56.23	55.99	55.84	55.87	58.82
130	53.57	55.59	57.58	58.06	57.91	56.39	58.29	57.92	57.09	59.51	59.12	60.31
160	54.28	56.68	56.91	56.6	57.59	57.9	60.56	59.19	59.58	59.47	59.73	61.23
200	56.01	57.67	59.21	59.66	58.75	59.4	60.04	59.33	60.63	61.7	61.48	61.45
250	55.58	57.33	57.98	57.28	58.38	58.65	59.71	59.25	59.46	59.67	59.81	59.91
320	55.89	57.88	58.73	58.52	58.78	59.74	59.98	60.58	60.74	60.52	61.09	60.72
400	56.08	57.72	57.97	58.23	58.73	59.37	59.43	59.86	59.8	60.54	61.35	61.47
500	55.22	57.18	57.77	58.65	58.71	59.24	59.46	59.64	60.58	60.62	60.62	61.19
630	55.09	57.96	58.34	59.15	59.15	59.52	59.67	60.02	60.31	60.61	60.63	61.3
800	55.52	57.26	57.63	57.95	58.27	58.9	59.72	59.9	60.17	60.18	60.79	60.75
1000	55.75	57.02	57.81	58.28	58.64	58.98	59.46	59.9	60.24	60.3	60.64	60.99
1300	54.93	56.28	57.17	57.61	58.2	58.79	59.22	59.7	60.12	60.15	60.19	60.35
1600	52.79	54.47	55.19	58.56	57.74	57.92	58.55	59.25	59.35	59.27	59.88	59.97
2000	50.64	51.9	53.36	54.09	55.92	56.1	57.24	58.58	58.37	58.29	58.49	58.56
2500	47.18	48.62	50.28	51.77	53.37	53.34	54.89	57.29	57.41	57.23	57.2	56.91
3200	41.66	44.01	45.95	47.44	48.46	48.92	50.53	54.49	54.44	54.32	54.41	54.02
4000	33.85	36.18	38.77	40.2	41.46	42.01	44.04	50.45	50.05	49.91	49.74	49
5000	21.55	25.37	29.01	30.09	32.75	32.39	35.36	44.3	44.16	43.92	43.21	42.71
6300	0	0	0	2.67	14.84	13.27	19.45	35.27	35.38	35.06	34.53	33.13
8000	0	0	0	0	0	0	0	18.67	18.45	16.11	14.65	3.82
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.77	68.6	69.26	69.79	70.16	70.5	71.09	71.36	71.88	71.93	72.15	72.45
PNL	78.25	77.98	78.82	79.78	80.61	80.9	81.63	81.84	81.91	81.94	82.12	82.22

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	57.63	57.71	57.52	58.5	56.5	59.93	59.28	59.07	58.17	57.2	61.15	123.03
80	55.88	58.19	57.48	57.98	58.28	60.07	60.07	60.13	60.39	60.64	60.63	123.81
100	58.54	57.6	60.03	60.35	59.51	60.46	60.21	60.28	60.46	60.96	61.37	124.41
130	59.73	60.09	59.59	60.17	59.76	59.81	60.92	61.3	61.05	60.45	59.57	124.97
160	60.85	61.54	61.19	61.67	61.66	62.54	60.83	60.18	59.42	58.95	58.6	125.3
200	61.27	62.36	63.29	62.35	61.57	61.38	62.18	61.68	61.23	59.1	58.84	126.14
250	60.66	61.19	60.91	60.98	60.89	60.72	62.06	60.75	58.86	56.77	54.01	124.88
320	61.01	61.08	61.56	61.69	60.34	59.65	60.27	59.28	57.51	54.38	50.81	124.73
400	61.28	61.19	61.34	60.57	59.33	58.12	59.06	57.74	55.22	52.14	48	124.11
500	61.53	60.73	60.21	60.02	58.5	56.96	57.02	55.24	52.78	49.54	45.79	123.52
630	61.26	61.37	61	59.49	57.84	55.88	55.43	53.46	50.89	47.3	42.4	123.45
800	61.18	61.24	60.18	58.5	56.85	54.6	53.67	51.23	48.56	45.26	40.44	122.88
1000	61.12	60.98	59.9	58.38	56.21	53.67	52.13	49.92	47.08	43.05	37.58	122.74
1300	60.53	60.62	60.08	58.26	55.48	52.93	51.17	48.73	45.54	40.85	35.07	122.34
1600	59.76	59.6	58.78	57	54.55	51.8	50.5	47.87	44.22	39.11	32.79	121.45
2000	58.22	57.71	56.91	55.33	52.55	49.31	49.03	46.18	42.28	36.78	29.95	119.94
2500	56.08	54.95	53.84	52.28	49.51	46.44	46.21	43.13	38.98	32.73	25.07	117.85
3200	52.88	51.1	49.37	47.23	44.42	41.03	43.27	39.48	34.28	27.14	14.55	114.35
4000	47.33	45.65	43.97	41.54	37.91	33.95	37.3	32.95	27.07	15.03	0	109.24
5000	41.09	38.92	36.4	33.24	29.12	24.04	29.77	24.12	10.58	0	0	102.62
6300	30.62	27.77	24.12	18.23	2.29	0	15.3	0	0	0	0	92.97
8000	0	0	0	0	0	0	0	0	0	0	0	74.33
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	72.48	72.6	72.42	71.85	70.86	70.75	70.84	70.16	69.31	68.31	68.1	138
PNL	81.94	81.6	80.95	79.69	77.62	75.8	74.78	73.05	71.07	68.19	65.15	80.73

50%L, 12CL

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL

1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL

Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	269
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	587.41
m01	0.0005
pamb	14.3442
tamb	502.583
rhumid	84.13
winds1	0
nprc	1.169
nprb	1.209
ptc	16.7684
ptb	17.3421
wactc	1.915
wactb	9.478
ttc	1093.16
ttb	493.526
ptmix	17.2457
ttmix	594.316
mixpnd	0.49146
grevmp	6692.36
badchan	(26)
bkgnd	263
escdate	25.Nov.96
esctime	16:17:36
DADSdate	25.Nov.96
DADStime	16:17:36
blchdate	25.Nov.96
blchtime	16:17:36

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:44:29 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	62.8	63.36	63.95	64.8	65.3	66.04	66.81	67.62	68.46	69.32	70.2	71.1	72.01	72.94	73.67	74.8	75.72	76.64	77.55	78.45	79.33	80.18	0	115.69
100	64.18	65.02	65.66	66.68	67.48	68.24	68.96	69.64	70.25	70.79	71.25	71.84	72.02	72.49	73.11	73.93	75.03	76.33	77.5	78.21	78.11	78.9	0	115.44
130	64.66	65.51	66.25	66.9	67.47	67.98	68.46	68.9	69.35	69.8	70.28	70.8	71.4	72.09	72.91	73.87	75.01	76.23	77.23	77.72	77.38	75.92	0	115.02
160	66	66.9	67.43	67.79	68.15	68.65	69.3	70.08	70.89	71.71	72.41	72.96	73.44	73.93	74.53	75.27	76.16	77.12	77.94	78.37	78.18	77.11	0	116.25
200	65.83	66.73	67.8	68.44	69.26	70.08	70.83	71.55	72.19	72.72	73.13	73.45	73.84	74.39	75.12	75.86	76.41	76.61	76.45	75.94	75.1	73.93	0	116.11
250	67.04	67.86	68.66	69.44	70.21	70.98	71.72	72.49	73.26	74.05	74.84	75.63	76.36	77.01	77.53	77.87	78	77.86	77.4	76.57	75.33	73.61	0	117.65
320	67.78	68.76	69.57	70.29	71	71.66	71.98	72.19	72.63	73.27	74.09	75.04	75.93	76.44	76.71	77.16	77.48	77.37	76.74	75.51	73.8	71.84	0	117.15
400	66.48	67.76	68.85	69.79	70.63	71.41	72.14	72.71	73.2	73.86	74.65	75.51	76.33	76.96	77.22	77.02	76.55	75.7	74.46	73.07	71.52	69.88	0	116.94
500	66.91	67.99	68.89	69.69	70.43	71.15	71.83	72.42	73.04	73.85	74.77	75.69	76.55	77.69	78.38	76.21	77.21	75.7	74.13	72.71	70.9	69.13	0	117.27
630	66.1	67.58	68.47	69.29	69.97	70.53	71.07	71.69	72.28	72.93	73.93	75	76	76.81	77.2	76.79	75.55	73.89	72.44	71.36	70.3	69.44	0	116.28
800	65.44	67.02	68.36	69.34	69.77	70.18	70.98	71.64	72.35	73.29	74.37	75.24	75.56	75.97	76.07	75.4	74.21	72.86	71.29	69.61	68.23	67.11	0	115.74
1000	64.88	66.23	67.27	68.13	68.73	69.33	69.94	70.62	71.38	72.07	72.7	73.34	73.96	74.4	74.65	73.99	72.43	71.25	69.74	68.33	66.93	65.74	0	114.32
1300	64.25	65.67	66.65	67.43	67.96	68.4	68.97	69.64	70.19	70.88	71.4	72.21	72.63	73.2	73.27	72.43	71.24	69.88	68.51	67.1	65.41	64.12	0	113.13
1600	63.15	64.74	65.88	66.72	67.14	67.83	68.46	69.02	69.52	70.05	70.61	71.22	71.87	72.81	72.74	71.63	70.35	68.95	67.36	65.8	64.23	62.8	0	112.38
2000	62.38	64.07	65.16	65.85	66.3	66.84	67.52	68.11	68.49	69.06	69.75	70.34	70.58	71.22	71.6	70.68	69.25	67.81	65.94	64.06	62.35	61.3	0	111.32
2500	61.63	63.37	64.44	65.17	65.74	66.54	67.37	68.05	68.46	68.87	69.31	69.81	70.05	70.32	70.52	69.77	68.23	66.48	64.71	62.92	61.3	60.11	0	110.72
3200	60.76	62.64	63.91	64.76	65.42	66.07	66.95	67.78	68.48	68.8	69.01	69.4	69.69	69.89	70.29	69.62	67.7	65.62	63.75	61.92	59.84	58.23	0	110.36
4000	59.67	61.76	63.2	64.24	64.98	65.61	66.92	67.44	67.99	68.49	68.96	69.29	68.99	69.05	69.61	68.67	66.86	64.64	62.68	60.62	57.87	55.91	0	109.85
5000	58.52	61.23	62.75	63.63	64.35	65.48	66.64	67.42	67.95	68.61	69.01	69.3	69.32	69.29	69.25	68.15	66.57	63.63	61.24	59.51	56.34	55.06	0	109.7
6300	57.79	60.95	62.74	63.8	64.72	66.03	67.33	68.06	68.52	69.03	69.42	70.15	70.14	69.5	69.22	68.36	66.7	63.5	61.16	58.71	54.69	53.76	0	110.12
8000	57.12	61.23	63.39	64.53	65.43	66.6	67.89	68.81	69.43	69.97	70.63	71.47	71.04	70.24	70.03	69.1	67.52	63.41	60.75	57.88	53.75	53.77	0	110.96
10000	55.88	59.7	62.05	63.69	64.88	65.91	66.78	67.51	68.01	68.47	69.39	70.04	69.59	69.16	69.8	68.8	66.65	62.55	59.33	56.26	51.59	50.56	0	109.87
OASPL	77.68	78.97	79.98	80.8	81.47	82.17	82.89	83.53	84.13	84.78	85.5	86.23	86.78	87.33	87.74	87.69	87.42	87.15	86.96	86.74	86.25	85.45	0	128.01

rdg 269
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld SH50
anoz 41.226
ambc 35.02
amixb 78.39
scale 4
vid 587.41
m01 0.0005
pamb 14.3442
tamb 502.583
rhumid 84.13
winds1 0
nprc 1.169
nprb 1.209
ptc 16.7684
ptb 17.3421
wactc 1.915
wactb 9.478
ttc 1093.16
ttb 493.526
ptmix 17.2457
ttmix 594.316
mixpnd 0.49146
gravixp 6692.36
badchan [26]
bkgnd 263
eacdate 25.Nov.96
eactime 16:17:38
DADSdate 25.Nov.96
DADStime 16:17:38
btchdate 25.Nov.96
btchtime 16:17:38
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:44:35 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	41.02	42.05	43.05	44.02	44.96	45.86	46.74	47.58	48.38	49.14	49.86	50.52
100	42.36	43.69	44.93	46.07	47.11	48.04	48.86	49.57	50.15	50.58	50.87	51.02
130	42.78	44.13	45.27	46.24	47.05	47.73	48.31	48.79	49.2	49.55	49.86	50.14
160	44.05	45.44	46.39	47.08	47.67	48.34	49.09	49.88	50.69	51.39	51.92	52.22
200	43.74	45.15	46.43	47.8	48.67	49.64	50.52	51.27	51.88	52.31	52.54	52.81
250	44.77	46.11	47.33	48.45	49.46	50.4	51.28	52.05	52.8	53.48	54.09	54.62
320	45.28	46.8	48.04	49.1	50.08	50.92	51.32	51.59	51.99	52.52	53.16	53.86
400	43.62	45.44	46.96	48.27	49.38	50.35	51.19	51.8	52.26	52.8	53.4	53.96
500	43.62	45.28	46.64	47.8	48.81	49.73	50.52	51.16	51.73	52.42	53.15	53.78
630	42.3	44.37	45.76	46.98	47.83	48.7	49.37	50.04	50.59	51.12	51.91	52.69
800	41.09	43.32	45.17	46.55	47.29	47.92	48.82	49.55	50.22	51.04	51.81	52.47
1000	39.97	41.99	43.57	44.86	45.78	46.6	47.34	48.07	48.79	49.34	49.75	50.08
1300	38.75	40.87	42.42	43.64	44.5	45.18	45.88	46.59	47.1	47.46	47.95	48.43
1600	36.94	39.27	41.02	42.33	43.12	44.06	44.82	45.43	45.88	46.27	46.58	46.83
2000	35.3	37.79	39.54	40.7	41.53	42.32	43.16	43.81	44.12	44.54	44.99	45.2
2500	33.34	35.94	37.7	38.97	39.96	41.04	42.04	42.78	43.15	43.38	43.51	43.6
3200	30.69	33.53	35.56	37.03	38.11	39.08	40.15	41.03	41.66	41.83	41.72	41.65
4000	26.82	30.01	32.37	34.13	35.4	36.56	37.65	38.46	38.95	39.25	38.98	39.13
5000	20.12	25.51	28.11	29.65	31.16	32.73	34.14	35.01	35.48	35.9	35.85	35.47
6300	0	10.76	20.16	23.61	25.75	27.73	29.33	30.18	30.49	30.64	30.39	30.37
8000	0	0	0	0	6.33	15.29	19.27	20.98	21.96	22.2	22.09	21.79
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	54.27	55.9	57.25	58.38	59.33	60.16	60.94	61.6	62.18	62.74	63.29	63.78
PNL	59.12	61.46	63.29	64.63	65.67	66.71	67.67	68.41	68.93	69.34	69.69	70.07

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.11	51.64	52.08	52.43	52.65	52.74	52.65	52.34	51.74	50.73	0	115.62
100	51.09	51.16	51.29	51.52	51.92	52.38	52.55	52.04	50.45	47.36	0	115.33
130	50.42	50.71	51.03	51.41	51.84	52.2	52.2	51.46	49.61	46.24	0	114.84
160	52.38	52.47	52.57	52.72	52.89	53	52.79	51.98	50.25	47.23	0	115.98
200	52.87	52.81	53.03	53.17	52.99	52.32	51.11	49.34	46.93	43.76	0	115.72
250	55.03	55.25	55.26	54.98	54.38	53.33	51.8	49.66	46.76	42.97	0	117.08
320	54.4	54.48	54.22	54.03	53.57	52.54	50.79	48.2	44.77	40.61	0	116.36
400	54.45	54.63	54.34	53.48	52.21	50.4	47.98	45.14	41.77	37.73	0	115.8
500	54.27	54.96	55.08	54.21	52.37	49.84	47.02	44.04	40.27	35.9	0	115.71
630	53.3	53.62	53.4	52.25	50.12	47.37	44.58	41.82	38.61	34.85	0	114.25
800	52.38	52.28	51.73	50.28	48.14	45.63	42.63	39.18	35.5	31.24	0	113.28
1000	50.26	50.17	49.75	48.27	45.7	43.29	40.25	36.92	33.03	28.42	0	111.31
1300	48.41	48.41	47.77	46.06	43.79	41.13	38.17	34.73	30.35	25.37	0	109.57
1600	47.01	47.15	46.53	44.52	42.1	39.31	35.99	32.24	27.78	22.33	0	108.2
2000	44.93	44.95	44.54	42.63	40.01	37.06	33.29	29.01	24.16	17.88	0	106.36
2500	43.33	42.91	42.23	40.41	37.56	34.15	30.29	25.82	20.5	0.19	0	104.7
3200	41.34	40.78	40.19	38.28	34.87	30.98	26.71	21.66	3.68	0	0	102.78
4000	38.17	37.38	36.77	34.42	30.83	26.45	21.08	-2.89	0	0	0	99.86
5000	34.84	33.5	32.1	29.29	25.55	17.66	0	0	0	0	0	98.02
6300	29.35	27.35	25.07	21.04	6.77	0	0	0	0	0	0	90.47
8000	18.87	10.26	0	0	0	0	0	0	0	0	0	80.55
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	64.07	64.27	64.2	63.72	62.99	62.15	61.16	59.85	57.96	55.29	0	126.39
PNL	70.21	70.29	70.08	68.99	67.15	65.16	62.67	59.89	56.16	51.38	0	68.71

NASA Lewis Allison AST Jet Noise Test 1996

rdg	270
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	828.54
m01	0.0005
pamb	14.3442
tamb	502.476
rhumid	84.56
winds1	0
nprc	1.393
nprb	1.443
ptc	19.9815
ptb	20.6987
wactc	2.884
wactb	13.638
ttc	1154.48
ttb	493.157
ptmix	20.5742
ttmix	607.933
mixpnd	0.685396
gravixp	13672.6
badchan	(26)
bkgnd	263
escdate	25.Nov.96
esctime	16:21:48
DADSdate	25.Nov.96
DADStime	16:21:48
btchdate	25.Nov.96
btchtime	16:21:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:46:45 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.68	74.31	75	75.74	76.52	77.31	78.08	78.83	79.51	80.12	80.63	81.06
100	75.16	76.36	77.2	77.78	78.16	78.43	78.68	78.97	79.38	79.98	80.85	82.04
130	74.86	75.33	75.79	76.09	76.3	76.48	76.7	77.01	77.48	78.16	79.11	80.38
160	75.59	76.5	77.27	77.92	78.49	79.01	79.51	80.02	80.56	81.16	81.9	82.76
200	76.9	77.58	78.26	78.98	79.64	80.19	80.67	81.13	81.64	82.23	82.98	83.82
250	78.08	78.65	79.1	79.49	79.87	80.27	80.71	81.19	81.73	82.39	83.22	84.23
320	77.91	78.48	78.91	79.29	79.7	80.2	80.76	81.3	81.77	82.26	82.93	83.82
400	77.11	77.92	78.68	79.4	80.07	80.73	81.37	82	82.64	83.3	83.98	84.71
500	77.24	78.06	78.76	79.37	79.91	80.38	80.85	81.35	81.89	82.52	83.3	84.25
630	77	78.01	78.71	79.27	79.73	80.18	80.65	81.25	81.79	82.13	82.94	83.77
800	77.07	77.84	78.54	79.09	79.57	79.93	80.34	80.92	81.69	82.49	83.01	83.38
1000	76.43	77.25	77.76	78.16	78.62	79.2	79.85	80.54	81.14	81.73	82.34	83.07
1300	75.89	76.8	77.35	77.77	78.24	78.67	79.5	80	80.6	81.45	82.02	82.82
1600	75.06	76.1	76.8	77.34	77.81	78.17	78.68	79.39	80.13	80.77	81.31	82.06
2000	74.39	75.77	76.42	76.91	77.33	77.85	78.37	79.05	79.65	79.98	80.51	81.01
2500	73.38	74.67	75.54	76.17	76.68	77.25	78.02	78.68	79.12	79.41	79.94	80.46
3200	72.5	74.05	75.15	75.9	76.33	76.81	77.63	78.43	79.02	79.33	79.64	79.82
4000	71.3	73.19	74.39	75.14	75.37	76.09	77.32	77.66	78.29	78.84	79.24	79.48
5000	70.18	72.53	73.67	74.18	74.31	75.3	76.81	77.3	77.58	78.15	78.5	78.56
6300	69.03	71.49	72.78	73.45	73.79	74.92	76.85	77.41	77.89	78.44	78.25	78.35
8000	67.98	70.93	72.29	72.89	73.25	74.59	77.05	77.57	77.91	78.53	78.88	78.85
10000	66.03	68.47	69.73	70.77	71.73	73.13	75.04	75.67	76.22	76.91	77.22	76.32
OASPL	88.61	89.58	90.28	90.84	91.31	91.86	92.54	93.09	93.66	94.24	94.86	95.54

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.51	82.13	83.08	84.43	86.36	88.77	91.23	93.28	94.45	94.29	0	128.33
100	83.49	85.11	86.81	88.49	90.05	91.39	92.42	93.04	93.17	92.87	0	129.17
130	81.92	83.67	85.53	87.42	89.24	90.88	92.1	92.63	92.18	90.56	0	128.22
160	83.79	85	86.39	87.85	89.29	90.58	91.49	91.78	91.13	89.29	0	128.33
200	84.7	85.5	86.41	87.53	88.47	88.91	88.84	88.25	87.12	85.42	0	127.32
250	85.34	86.47	87.5	88.33	88.87	89.07	88.87	88.23	87.06	85.31	0	127.72
320	85	86	86.83	87.76	88.45	88.44	87.62	86.26	84.46	82.41	0	127.06
400	85.43	86.12	86.65	87.36	88.16	87.47	86.07	84.39	82.78	81.48	0	126.93
500	85.23	86.06	86.67	87.11	87.17	86.44	85.15	83.59	81.64	79.97	0	126.43
630	84.54	85.35	85.8	85.88	85.97	85.27	83.98	82.11	79.94	78.11	0	125.7
800	84.12	84.99	85.07	84.83	84.71	83.87	82.45	80.8	79.1	77.06	0	125.14
1000	83.86	84.24	84.31	84.24	83.76	82.68	80.97	79.1	77.18	75.15	0	124.41
1300	83.5	83.87	83.85	83.28	82.72	81.49	79.91	77.93	75.6	73.41	0	123.84
1600	82.79	83.24	83.02	82.04	81.28	80.12	78.35	76.14	73.72	71.65	0	123.02
2000	81.93	82.59	82.09	81.03	80.43	78.88	76.68	74.53	72.58	70.7	0	122.27
2500	80.98	81.51	81.11	80.02	79.08	77.51	75.49	73.46	71.37	68.97	0	121.46
3200	80.42	80.69	80.14	79.09	77.94	76.5	74.48	72.35	70.17	67.68	0	120.9
4000	79.58	79.46	78.88	77.85	76.84	75.22	73.12	71.04	68.8	66.17	0	120.1
5000	78.76	78.51	77.73	76.48	75.37	73.63	71.71	69.78	67.21	64.53	0	119.22
6300	78.43	78.07	76.93	75.14	73.91	72.35	70.53	68.44	65.39	63.05	0	118.68
8000	78.16	77.68	76.49	74.62	73.3	71.49	69.41	67.35	64.34	62.1	0	118.79
10000	75.74	75.65	74.87	72.78	71.02	68.62	65.98	64.52	61.75	59.28	0	118.86
OASPL	96.36	97.15	97.74	98.37	99.1	99.57	99.93	100.13	99.91	98.94	0	138.84

NASA Lewis Allison AST Jet Noise Test 1996

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rdg 270
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 828.54
m01 0.0005
pamb 14.3442
tamb 502.476
rhumid 84.58
winds1 0
nprc 1.393
nprb 1.443
ptc 19.9815
ptb 20.6987
wactc 2.864
wactb 13.638
ttc 1154.48
ttb 493.157
ptmix 20.5742
twmix 607.933
mixpnd 0.685398
gravixp 13672.6
badchan (26)
bkgnd 263
escdate 25.Nov.96
esctime 16:21:48
DADSdate 25.Nov.96
DADStime 16:21:48
btchdate 25.Nov.96
btchtime 16:21:48
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:46:54 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.9	53.01	54.1	55.18	56.18	57.13	58.01	58.78	59.44	59.95	60.29	60.47	60.61	60.84	61.28	62.05	63.29	64.87	66.33	67.17	66.87	64.64	0	128.25
100	53.34	55.02	56.27	57.18	57.79	58.23	58.57	58.9	59.27	59.77	60.48	61.42	62.55	63.78	64.99	66.06	66.93	67.43	67.46	66.88	65.51	63.13	0	129.04
130	52.78	53.95	54.8	55.42	55.86	58.23	56.55	56.9	57.33	57.91	58.69	59.72	60.94	62.29	63.66	64.95	66.07	66.86	67.06	66.36	64.41	60.89	0	128.02
160	53.64	55.04	56.21	57.18	58	58.69	59.29	59.84	60.35	60.87	61.41	62.02	62.73	63.54	64.43	65.29	66.01	66.45	66.34	65.39	63.21	59.42	0	128.03
200	54.82	56	57.12	58.15	59.05	59.77	60.36	60.66	61.33	61.82	62.37	62.99	63.54	63.93	64.34	64.85	65.05	64.63	63.52	61.67	58.96	55.26	0	126.92
250	55.82	56.9	57.77	58.5	59.12	59.7	60.25	60.77	61.27	61.82	62.47	63.23	64.01	64.72	65.23	65.44	65.24	64.54	63.28	61.33	58.53	54.66	0	127.11
320	55.4	56.51	57.37	58.09	58.77	59.45	60.12	60.69	61.13	61.53	62	62.63	63.46	64.03	64.33	64.63	64.54	63.6	61.68	58.95	55.44	51.19	0	126.22
400	54.26	55.62	56.82	57.89	58.63	59.67	60.42	61.09	61.7	62.24	62.74	63.19	63.56	63.81	63.79	63.86	63.83	62.18	59.6	56.49	53.06	49.36	0	125.75
500	53.95	55.34	56.51	57.49	58.31	58.97	59.55	60.09	60.59	61.1	61.69	62.36	62.98	63.34	63.38	63.13	62.34	60.58	58.05	54.95	51.03	46.75	0	124.82
630	53.19	54.81	56.01	56.95	57.71	58.36	58.96	59.6	60.1	60.32	60.92	61.47	61.85	62.17	62.01	61.34	60.54	58.76	56.13	52.58	48.3	43.63	0	123.63
800	52.72	54.22	55.34	56.3	57.09	57.66	58.19	58.82	59.56	60.23	60.54	60.6	60.93	61.27	60.72	59.7	58.64	56.64	53.6	50.38	46.38	41.24	0	122.58
1000	51.52	53	54.06	54.89	55.67	56.48	57.26	57.99	58.55	59	59.38	59.79	60.15	60	59.41	58.52	57.04	54.72	51.51	47.74	43.31	37.86	0	121.35
1300	50.38	51.98	53.12	53.97	54.78	55.65	56.42	56.96	57.51	58.22	58.56	59.01	59.26	59.07	58.13	56.9	55.28	52.74	49.54	45.52	40.51	34.82	0	120.25
1600	48.88	50.64	51.84	52.94	53.57	54.37	55.04	55.8	56.5	56.99	57.27	57.86	57.92	57.78	56.82	54.92	53.04	50.49	46.98	42.54	37.22	31.14	0	118.84
2000	47.31	49.5	50.78	51.78	52.56	53.34	54.02	54.74	55.3	55.44	55.75	55.87	56.27	56.31	55.02	52.96	51.15	48.1	44.04	39.49	34.35	27.99	0	117.32
2500	45.1	47.25	48.8	49.97	50.89	51.75	52.09	53.4	53.78	53.91	54.17	54.27	54.25	54.09	52.82	50.67	48.4	45.17	41.07	36.35	30.68	23.19	0	115.46
3200	42.44	44.95	46.8	48.14	49.03	49.84	50.86	51.71	52.24	52.36	52.35	52.09	52.08	51.57	50.05	47.8	45.17	41.84	37.47	32.28	25.95	14.9	0	113.35
4000	38.48	41.49	43.57	45.01	45.79	46.87	48.29	48.7	49.27	49.72	49.64	49.36	48.76	47.76	46.06	43.85	40.88	37.05	32.13	28.34	17.01	0	0	110.18
5000	33.12	36.86	39.11	40.46	41.2	42.62	44.35	44.87	45.1	45.42	45.36	44.77	44.13	42.81	40.66	37.79	34.58	30.06	24.38	14.51	0	0	0	105.68
6300	25.09	29.6	32.21	33.87	35.04	36.75	38.89	39.59	39.86	40.16	39.43	38.73	37.75	36.04	33.21	29.32	24.86	17.62	0	0	0	0	0	99.68
8000	0	15.52	21.39	23.99	25.58	27.91	31	31.62	31.82	32.02	31.59	30.35	28.38	25.64	21.61	9.37	0	0	0	0	0	0	0	91.02
10000	0	0	0	0	0	0	8.87	9.87	11.53	11.75	10.17	0	0	0	0	0	0	0	0	0	0	0	0	69.68
OASPL	65.02	66.4	67.5	68.41	69.18	69.87	70.5	71.08	71.61	72.1	72.59	73.14	73.72	74.21	74.53	74.82	75.02	74.86	74.41	73.55	71.93	69.11	0	137.56
PNL	71.08	73.04	74.42	75.52	76.38	77.21	78.09	78.75	79.24	79.57	79.89	80.15	80.38	80.46	80.05	79.55	78.97	77.42	75.41	73.16	70	65.45	0	79.64

NASA Lewis Allison AST Jet Noise Test 1996

rdg	271
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	987.28
m01	0.00411
pamb	14.3372
tamb	502.672
rhumid	87.03
winds1	0
nprc	1.545
nprb	1.61
ptc	22.151
ptb	23.0829
wactc	3.599
wactb	15.885
ttc	1293.78
ttb	493.621
ptmix	22.9108
ttmix	641.423
mixpnd	0.796104
gravisp	19236.2
badchan	{26}
bkgnd	263
escdate	25.Nov.96
esctime	16:31:43
DADSdate	25.Nov.96
DADStime	16:31:43
btchdate	25.Nov.96
btchtime	16:31:43

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:49:03 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	79.1	79.78	80.28	80.63	80.88	81.08	81.27	81.5	81.81	82.24	82.84
100	79.43	80.25	80.87	81.33	81.69	82	82.31	82.67	83.15	83.78	84.83
130	80.36	80.95	81.34	81.58	81.72	81.63	81.97	82.17	82.51	83.02	83.78
160	81.75	82.44	82.89	83.16	83.32	83.45	83.62	83.89	84.34	85.01	85.99
200	81.64	82.13	82.57	82.95	83.31	83.68	84.08	84.54	85.09	85.74	86.52
250	82.05	82.64	83.14	83.58	83.99	84.4	84.85	85.36	85.95	86.65	87.48
320	82.33	83.1	83.62	83.97	84.21	84.43	84.68	85.02	85.49	86.13	86.96
400	81.87	82.37	83.04	83.71	84.37	85.08	85.66	86.18	86.7	87.28	87.99
500	81.88	82.63	83.21	83.72	84.22	84.75	85.2	85.86	86.17	86.77	87.56
630	81.25	82.09	82.71	83.22	83.88	84.15	84.68	85.31	85.98	86.68	87.59
800	81.15	81.93	82.57	83.12	83.64	84.2	84.8	85.43	86.05	86.63	87.33
1000	80.88	81.84	82.48	82.94	83.3	83.69	84.21	84.81	85.58	86.48	87.36
1300	80.54	81.47	82.08	82.51	82.93	83.44	83.98	84.49	85.17	86.01	86.75
1600	79.82	80.79	81.48	81.99	82.44	82.99	83.53	84.08	84.6	85.27	86.17
2000	79.24	80.38	81.12	81.65	82.02	82.47	83.04	83.47	84.13	84.93	85.75
2500	78.13	79.45	80.25	80.91	81.55	82.23	82.98	83.48	83.8	84.27	85.21
3200	77.24	78.58	79.49	80.24	80.97	81.75	82.43	82.86	83.28	83.64	84.29
4000	75.84	77.82	78.74	79.51	80.09	80.93	81.88	82.22	82.65	83.11	83.6
5000	75.05	77	77.84	78.24	78.88	79.72	80.89	81.49	81.84	82.25	82.66
6300	73.65	75.82	76.83	77.33	77.79	78.94	80.35	81.08	81.43	81.87	82.07
8000	72.64	75.17	76.41	76.98	77.37	78.48	79.83	80.63	81.25	81.63	81.92
10000	70.54	72.68	73.98	75.08	75.87	76.99	77.78	78.4	78.97	79.45	79.77
OASPL	93.28	94.16	94.78	95.27	95.89	96.18	96.72	97.2	97.74	98.38	99.12

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165		
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0		
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL	
80	83.64	84.69	86.02	87.65	89.82	91.94	94.52	96.99	99	100.18	100.15	0	133.7	
100	85.72	87.07	88.65	90.45	92.48	94.67	96.93	98.9	100.19	100.42	99.21	0	134.92	
130	84.78	86.1	87.72	89.64	91.86	94.37	96.98	99.23	100.64	100.73	98.99	0	134.96	
160	87.3	88.87	90.8	92.39	94.17	95.81	97.22	98.29	98.91	98.98	98.4	0	134.88	
200	87.45	88.52	89.7	90.99	92.35	93.77	95.07	95.76	95.42	94.42	93.77	0	132.67	
250	88.59	90.19	91.67	92.64	93.45	94.38	95.36	95.95	95.62	94.26	91.97	0	133.29	
320	88.02	89.3	90.73	92.16	93.33	93.96	93.92	93.33	92.32	91	89.59	0	132.14	
400	88.68	89.37	90.62	91.85	92.68	92.98	92.68	91.92	90.63	89.44	87.87	0	131.74	
500	88.57	89.56	90.51	91.34	91.87	92.25	91.91	91.14	90.08	88.39	86.27	0	131.24	
630	88.52	89.42	90.27	90.91	91.28	91.3	90.54	89.18	87.48	85.57	83.69	0	130.54	
800	88.29	89.39	90.27	90.55	90.51	90.38	89.43	87.82	86.07	84.38	82.78	0	130.13	
1000	88.04	88.81	89.75	89.81	89.2	88.84	88.14	86.77	85.13	83.33	81.19	0	129.45	
1300	87.78	88.04	89.33	89.31	89.31	88.09	86.85	85.48	84.03	82.54	81.18	0	129.03	
1600	87.29	88.34	89.1	88.44	87.52	86.73	85.72	84.1	82.21	80.14	78.09	0	128.23	
2000	86.77	87.98	88.53	87.56	86.49	85.5	84.47	82.85	80.84	78.58	76.25	0	127.58	
2500	86.43	87.57	88.3	86.93	85.58	84.73	83.37	81.48	79.28	76.94	74.61	0	127.05	
3200	85.57	86.66	86.7	85.81	84.46	83.45	82.14	80.51	78.42	75.58	72.54	0	126.1	
4000	84.54	85.24	85.27	84.25	83.31	82.54	81.07	79.2	76.82	73.82	71.09	0	125.09	
5000	83.33	83.62	83.59	82.96	81.83	81.07	79.37	77.63	75.46	71.87	68.97	0	123.87	
6300	82.47	82.6	82.23	81.4	80.29	79.72	78.44	76.98	73.79	69.9	67.79	0	122.97	
8000	82.1	81.8	81.14	80.24	79.24	79.08	77.61	76.21	72.61	68.5	66.87	0	122.42	
10000	79.37	79.03	78.77	78.24	77.1	76.55	75.08	72.99	70	65.45	63	0	120.15	
OASPL	100.07	101.13	102.11	102.8	103.56	104.48	105.45	106.42	107.07	107.06	106.05	0	144.33	

NASA Lewis Allison AST Jet Noise Test 1996

rdg	271
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	987.28
m01	0.00411
pamb	14.3372
tamb	502.672
rhumid	87.03
winds1	0
nprc	1.545
nprb	1.61
ptc	22.151
ptb	23.0829
wactc	3.599
wactb	15.885
ttc	1293.78
ttb	493.621
ptmix	22.9108
ttmix	841.423
mixpnd	0.795104
grsvixp	19236.2
badchan	(26)
bkgnd	263
eacdate	25.Nov.96
eactime	18:31:43
DADSdate	25.Nov.96
DADStime	18:31:43
btchdate	25.Nov.96
btchtime	18:31:43

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 01:49:08 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	57.32	58.48	59.38	60.04	60.54	60.91	61.2	61.48	61.73	62.06	62.49	63.08
100	57.61	58.92	59.93	60.71	61.31	61.79	62.2	62.6	63.04	63.57	64.25	65.11
130	58.49	59.57	60.38	60.91	61.3	61.59	61.82	62.06	62.36	62.77	63.34	64.12
160	59.8	60.98	61.83	62.42	62.83	63.14	63.41	63.71	64.12	64.7	65.5	66.57
200	59.56	60.56	61.4	62.11	62.72	63.27	63.77	64.27	64.78	65.32	65.93	66.61
250	59.79	60.9	61.82	62.59	63.25	63.84	64.39	64.93	65.49	66.08	66.73	67.59
320	59.82	61.13	62.08	62.77	63.27	63.67	64.03	64.41	64.64	65.37	66.01	66.82
400	58.82	60.07	61.17	62.19	63.12	64.02	64.71	65.27	65.75	66.22	66.75	67.17
500	58.59	59.91	60.96	61.84	62.62	63.34	63.9	64.4	64.87	65.35	65.95	66.69
630	57.44	58.88	60	60.9	61.65	62.33	62.98	63.66	64.29	64.87	65.57	66.21
800	56.8	58.22	59.37	60.32	61.15	61.92	62.65	63.33	63.91	64.38	64.86	65.51
1000	55.98	57.6	58.78	59.66	60.35	60.97	61.62	62.25	62.96	63.75	64.4	64.75
1300	55.02	56.66	57.84	58.72	59.46	60.2	60.89	61.45	62.08	62.78	63.28	63.98
1600	53.6	55.32	56.59	57.59	58.4	59.19	59.88	60.46	60.96	61.47	62.12	62.9
2000	52.18	54.08	55.48	56.51	57.28	57.98	58.69	59.17	59.77	60.42	60.86	61.62
2500	49.66	52.05	53.52	54.73	55.77	56.73	57.63	58.2	58.48	58.78	59.44	60.25
3200	47.18	49.48	51.14	52.5	53.68	54.78	55.64	56.13	56.48	56.65	56.99	57.83
4000	43.02	45.91	47.94	49.43	50.53	51.71	52.87	53.25	53.63	53.89	54.03	54.48
5000	38	41.27	43.2	44.5	45.59	47.06	48.48	49.12	49.4	49.58	49.58	49.61
6300	30.11	33.9	36.22	37.77	39.05	40.78	42.48	43.28	43.5	43.63	43.27	42.91
8000	13.86	22.9	26.55	28.66	30.12	31.92	33.62	34.8	35.27	35.16	34.74	33.94
10000	0	0	0	0	0	10.45	17.15	18.57	19.1	19.02	17.9	15.23
OASPL	68.73	71.03	72.05	72.85	73.52	74.12	74.66	75.15	75.64	76.17	76.78	77.49
PNL	75.95	77.77	79.1	80.16	81.05	81.9	82.69	83.24	83.66	84.09	84.65	85.35

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	63.79	64.72	65.87	67.25	68.87	70.61	72.09	72.9	72.59	70.7	0	133.61
100	66.14	67.32	68.83	70.05	71.55	72.98	73.94	74.02	72.76	69.67	0	134.78
130	65.12	66.34	67.77	69.39	71.19	72.95	74.19	74.38	72.98	69.32	0	134.74
160	67.81	69.14	70.44	71.61	72.54	73.1	73.14	72.52	71.06	68.52	0	134.56
200	67.35	68.13	68.91	69.86	70.36	70.78	70.43	69.61	68.25	63.6	0	132.22
250	68.85	69.92	70.38	70.57	70.75	70.84	70.36	68.72	65.73	61.34	0	132.64
320	67.76	68.76	69.67	70.19	70.05	69.08	67.37	64.99	61.98	58.37	0	131.26
400	67.5	68.3	69	69.16	68.66	67.39	65.46	62.92	59.72	55.77	0	130.51
500	67.31	67.8	68.05	67.89	67.41	66.06	64.07	61.47	57.8	53.07	0	129.58
630	66.72	67.07	67.11	66.75	65.87	64.02	61.34	57.98	53.93	49.18	0	128.43
800	66.2	66.56	66.2	65.38	64.3	62.2	59.18	55.66	51.68	46.95	0	127.52
1000	65.1	65.51	64.89	63.46	62.1	60.18	57.3	53.75	49.47	43.92	0	126.33
1300	64.78	64.52	63.79	62.9	60.64	58.1	56.11	51.58	47.38	42.27	0	125.37
1600	63.46	63.62	62.23	60.4	58.48	56.06	52.72	48.63	43.66	37.56	0	123.98
2000	62.34	62.24	60.49	58.44	56.23	53.7	50.21	45.79	40.33	33.54	0	122.58
2500	60.84	60.88	58.64	56.22	54.04	51.03	47.08	42.2	38.26	28.89	0	121
3200	58.33	57.6	55.5	53.17	50.66	47.49	43.49	38.31	31.32	22.24	0	118.48
4000	54.49	53.6	51.46	49.12	46.55	42.86	38.22	32.17	24.08	-0.32	0	115.08
5000	49.08	47.93	45.93	43.1	40.19	35.73	30.45	23.34	0	0	0	110.2
6300	42.02	40.32	37.75	34.47	31.06	26.03	17.77	0	0	0	0	103.61
8000	32.29	29.71	26.18	21.4	14.05	0	0	0	0	0	0	94.57
10000	0	0	0	0	0	0	0	0	0	0	0	78.71
OASPL	78.27	79.01	78.51	79.96	80.4	80.79	80.96	80.53	79.1	76.21	0	143.16
PNL	85.95	86.16	85.38	85.02	84.38	83.61	82.36	80.64	77.97	74.1	0	85.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	272
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
ambc	35.02
amixb	78.39
scale	4
vid	992.43
m01	0.0015
pamb	14.3347
tamb	502.229
rhumid	88.33
winds1	0
nprc	1.743
nprb	1.818
ptc	24.9854
ptb	26.0605
wactc	3.469
wactb	18.244
ttc	1384.7
ttb	495.066
ptmix	25.8867
ttmix	637.199
mixpnd	0.801896
grsvixp	21548.6
badchan	(26)
bkgnd	263
escdate	25.Nov.96
esctime	16:44:13
DADSdate	25.Nov.96
DADStime	16:44:13
btchdate	25.Nov.96
btchtime	16:44:13

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:51:17 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	82.75	83.61	84.2	84.59	84.83	84.98	85.1	85.25	85.48	85.85	86.42
100	84.86	85.35	85.81	86.09	86.25	86.36	86.49	86.69	87.02	87.55	88.34
130	85.89	86.55	86.85	86.87	86.68	86.27	85.82	85.46	85.34	85.6	86.37
160	87.78	88.84	89.39	89.56	89.46	89.2	88.69	88.64	88.57	88.79	89.39
200	88.32	89.22	89.64	89.72	89.57	89.3	89.02	88.83	88.84	89.15	89.87
250	86.09	86.59	86.95	87.21	87.41	87.62	87.89	88.26	88.8	89.54	90.55
320	86.61	86.81	86.98	86.98	87.28	87.8	88.49	89.06	89.36	89.67	90.24
400	85.48	85.94	86.37	86.78	87.21	87.87	88.2	88.8	89.51	90.33	91.3
500	85.3	85.89	86.41	86.83	87.14	87.43	87.85	88.56	89.43	89.99	90.66
630	85.42	86	86.48	86.9	87.29	87.68	88.12	88.63	89.25	90	90.92
800	85.36	85.97	86.48	86.82	87.12	87.45	87.83	88.26	88.89	89.73	90.77
1000	85.12	85.57	85.89	86.2	86.6	87.11	87.53	88.07	88.82	89.69	90.57
1300	84.89	85.37	85.79	86.09	86.43	86.82	87.32	87.88	88.53	89.32	90.2
1600	83.99	84.85	85.47	85.92	86.27	86.61	87.04	87.59	88.37	89.33	90.56
2000	83.58	84.56	85.2	85.69	86.13	86.53	87.04	87.69	88.48	89.44	90.82
2500	82.86	84.19	85.1	85.72	86.09	86.47	86.98	87.65	88.53	89.74	91.44
3200	82.79	84.66	85.72	86.21	86.41	86.65	87.15	87.98	89.1	90.38	92.2
4000	82.13	84.44	85.64	86.2	86.5	86.86	87.45	88.02	88.8	90.18	92.59
5000	81.61	84.48	85.49	85.8	85.79	86.5	87.28	87.77	88.25	89.5	91.72
6300	80.83	84.15	85.27	85.49	85.66	86.44	87.3	87.87	88.17	88.98	90.75
8000	79.85	83.39	84.85	85.38	85.55	86.38	87.42	87.78	87.97	88.75	90.4
10000	78.02	80.46	82.01	83.43	84.27	84.96	85.16	85.48	85.93	86.53	87.88
OASPL	98.11	99.1	99.7	100.03	100.23	100.51	100.87	101.28	101.81	102.81	103.86

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	87.24	88.34	89.77	91.56	93.74	96.35	99.25	101.99	104.14	105.25	104.87	0	138.48
100	89.44	90.84	92.51	94.46	96.66	99.09	101.6	103.78	105.22	105.49	104.19	0	139.67
130	87.72	89.58	91.86	94.46	97.33	100.33	103.26	105.7	107.19	107.25	106.45	0	141.13
160	90.45	91.91	93.7	95.72	97.89	100.13	102.28	104.05	105.19	105.78	106.04	0	140.43
200	91.04	92.45	93.83	95.41	97.54	99.7	101.31	102.1	101.85	101.19	100.99	0	138.43
250	91.86	93.39	95.06	96.78	98.48	100.11	101.43	102.1	102.09	101.25	99.47	0	138.55
320	91.25	92.89	94.51	96.51	98.35	99.64	100.05	99.62	98.73	97.67	96.86	0	137.22
400	92.48	93.83	95.27	96.61	97.51	97.93	97.86	97.34	96.41	95.1	93.45	0	136.22
500	91.84	92.77	94.19	95.87	97.01	97.68	96.98	96.25	95.06	93.33	91.39	0	135.47
630	91.84	92.85	93.81	94.91	95.74	96.04	95.51	94.1	92.75	91.16	89.3	0	134.6
800	91.88	92.86	93.67	94.25	94.61	94.72	94.16	92.84	91.18	89.28	87.34	0	133.93
1000	91.52	92.58	93.46	93.72	93.31	93.23	92.9	91.68	90.07	88.51	86.93	0	133.29
1300	91.55	92.97	93.45	92.95	92.2	91.93	91.61	90.34	89.21	88.11	86.68	0	132.82
1600	92.22	93.32	93.43	92.5	91.62	91.15	90.41	89.11	88.34	87.97	87.05	0	132.83
2000	92.65	94.36	94.1	91.8	90.23	89.7	88.92	87.88	87.19	86.86	85.83	0	132.55
2500	93.65	96	95.38	91.1	89.36	88.58	87.7	86.44	85.6	84.98	84.05	0	132.99
3200	94.75	97.27	95.79	90.64	88.63	87.69	86.73	85.14	83.68	82.34	80.9	0	133.51
4000	95.64	97.17	95.08	90.53	88.09	86.94	85.66	83.99	82.5	80.61	78.53	0	133.48
5000	94.73	96.21	93.94	89.41	88.93	85.79	84.5	82.9	81.34	78.97	78.58	0	132.61
6300	93.58	95.31	93.14	88.53	85.9	84.87	83.62	82.01	80.12	77.74	75.53	0	131.88
8000	92.8	94.13	92.26	88.18	85.26	83.93	82.85	81.02	78.95	76.67	74.75	0	131.26
10000	89.77	91.32	90.2	86.97	83.84	81.35	79.77	77.78	75.98	73.99	71.58	0	128.91
OASPL	105.68	107.25	107.22	107.11	108.16	109.55	110.81	112.14	112.98	113.06	112.2	0	149.88

NASA Lewis Allison AST Jet Noise Test 1996

rdg	272
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	992.43
m01	0.0015
pamb	14.3347
tamb	502.229
rhumid	88.33
winds1	0
nprc	1.743
nprb	1.818
ptc	24.9854
ptb	26.0605
wactc	3.489
wactb	18.244
ttc	1384.7
ttb	495.086
ptmix	25.8887
ttmix	637.199
mbxpnd	0.801896
grsvxp	21548.8
badchan	(26)
bkgnd	263
escdate	25.Nov.96
esctime	16:44:13
DADSdate	25.Nov.96
DADStime	16:44:13
blchdate	25.Nov.96
blchtime	16:44:13

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:51:25 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	60.97	62.31	63.3	64	64.49	64.81	65.03	65.21	65.41	65.68	66.07	66.65
100	62.84	64.02	64.87	65.47	65.88	66.18	66.38	66.61	66.92	67.35	67.97	68.82
130	64.01	65.17	65.87	66.21	66.24	66.02	65.67	65.34	65.19	65.35	65.95	67.06
160	65.82	67.38	68.34	68.83	68.97	68.88	68.68	66.46	68.38	68.47	68.9	69.72
200	66.25	67.65	68.49	68.89	68.98	68.88	68.71	66.55	68.53	68.74	69.28	70.21
250	63.83	64.85	65.62	66.21	66.67	67.08	67.43	67.84	68.33	68.97	69.81	70.88
320	64.11	64.84	65.33	65.78	66.31	67.04	67.64	68.45	68.72	68.91	69.3	70.05
400	62.63	63.63	64.5	65.27	65.98	66.61	67.25	67.89	68.56	69.27	70.08	70.97
500	62.01	63.18	64.18	64.95	65.54	66.02	66.55	67.3	68.14	68.58	69.05	69.75
630	61.62	62.81	63.78	64.58	65.28	65.86	66.42	66.98	67.55	68.18	68.9	69.63
800	61.01	62.25	63.28	64.02	64.84	65.18	65.69	66.17	66.75	67.47	68.3	69.1
1000	60.21	61.33	62.19	62.92	63.65	64.38	64.94	65.52	66.22	66.95	67.62	68.24
1300	59.17	60.55	61.54	62.29	62.98	63.58	64.22	64.83	65.43	66.09	66.74	67.75
1600	57.79	59.38	60.61	61.53	62.23	62.82	63.39	63.99	64.72	65.54	66.51	67.82
2000	56.51	58.28	59.54	60.54	61.35	62.02	62.68	63.38	64.12	64.92	66.03	67.48
2500	54.58	56.78	58.36	59.52	60.3	60.98	61.63	62.35	63.17	64.21	65.64	67.43
3200	52.69	55.52	57.35	58.44	59.1	59.67	60.36	61.24	62.29	63.37	64.86	66.92
4000	49.25	52.67	54.81	56.1	56.92	57.62	58.4	59.06	59.79	60.95	62.98	65.49
5000	44.68	48.74	50.84	52	52.62	53.75	54.79	55.39	55.8	56.8	58.82	61
6300	37.28	42.18	44.8	45.88	46.87	48.22	49.39	50.03	50.24	50.8	52.06	54.12
8000	25.71	32.11	35.38	37.15	38.3	39.81	41.33	41.87	41.91	42.26	43.22	44.64
10000	0	-2.47	18.95	21.08	23.78	25.75	26.92	27.8	27.91	27.98	28.29	28.9
OASPL	74.53	75.8	76.7	77.31	77.73	78.07	78.39	78.74	79.16	79.68	80.41	81.42
PNL	80.77	82.88	84.03	84.98	85.65	86.25	86.84	87.43	88.1	88.92	90.07	91.66

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	67.44	68.47	69.76	71.37	73.28	75.34	77.09	78.03	77.67	75.42	0	138.39
100	69.9	71.18	72.84	74.25	75.98	77.65	78.62	79.05	77.83	74.65	0	139.52
130	68.6	70.48	72.6	74.86	77.15	79.24	80.67	80.93	79.49	75.77	0	140.89
160	70.86	72.24	73.76	75.33	76.88	78.15	78.9	78.79	77.86	76.17	0	140.08
200	71.29	72.26	73.34	74.86	76.29	77.02	76.76	75.25	73.03	70.83	0	137.97
250	72.06	73.31	74.52	75.6	76.49	76.91	76.51	75.2	72.72	68.84	0	137.85
320	71.15	72.54	74.01	75.22	75.73	75.21	73.65	71.39	68.63	65.63	0	136.26
400	71.97	72.96	73.75	73.99	73.6	72.57	70.89	68.52	65.38	61.34	0	134.94
500	70.52	71.48	72.39	73.03	72.85	71.14	69.16	66.43	62.76	58.21	0	133.74
630	70.14	70.62	71.11	71.2	70.6	69	66.25	63.25	59.53	54.82	0	132.41
800	69.67	69.96	69.91	69.5	68.66	66.95	64.2	60.76	56.54	51.5	0	131.25
1000	68.87	69.22	68.81	67.57	66.49	64.95	62.21	58.68	54.62	49.63	0	130.09
1300	68.71	68.84	67.43	65.82	64.49	62.86	59.98	56.77	52.95	47.81	0	129.09
1600	68.45	67.96	66.3	64.5	62.9	60.77	57.74	54.76	51.49	46.52	0	128.3
2000	68.7	67.79	64.5	62.16	60.44	58.16	55.23	52.15	48.44	43.14	0	127.5
2500	69.23	67.93	62.81	60.01	57.88	55.36	52.02	48.53	44.34	38.39	0	126.94
3200	68.88	66.66	60.53	57.3	55.07	52.05	48.13	43.62	38.19	30.94	0	125.93
4000	66.35	63.37	57.68	53.84	50.95	47.47	42.99	37.8	30.94	21.02	0	123.54
5000	61.61	58.26	52.4	48.18	44.9	40.87	35.78	29.74	19.71	0	0	119.03
6300	54.77	51.2	44.75	40.01	36.09	31.56	24.97	12.07	0	0	0	112.54
8000	44.55	40.77	34.28	28.32	22.84	13.14	0	0	0	0	0	103.3
10000	26.51	24.38	13.66	0	0	0	0	0	0	0	0	88.11
OASPL	82.45	83.04	83.67	84.6	85.54	86.29	86.7	86.44	85.09	82.29	0	148.31
PNL	93.03	92.12	89.89	89.72	89.69	89.36	88.43	87.33	85.09	81.79	0	91.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg	276
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vjd	594.43
m01	0.20185
pamb	14.2872
tamb	501.267
rhumid	90.12
winds1	0
nprc	1.169
nprb	1.213
ptc	16.7017
ptb	17.3304
wactc	1.974
wactb	9.396
ttc	1099.19
ttb	497.596
ptmix	17.2212
ttmix	602.042
mixpnd	0.494132
grsvixp	6758.67
badchan	[04,26]
bkgnd	264
escdate	25.Nov.96
esctime	17:19:18
DADSdate	25 Nov 96
DADStime	17:19:18
bichdate	25.Nov.96
bichtime	17:19:18

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:58:31 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	0	0	0	61.91	60.87	62.42	62.5	63.66	65.5	64.95
100	54.01	54.94	56.08	60.41	62.21	61.48	61.37	61.2	62.02	62.74	63.33	64.33
130	69.11	63.36	60.48	60.43	61.14	61.83	62.37	62.69	63.06	63.48	63.77	64.11
160	56.64	60.31	60.33	60.99	61.82	62.58	63.56	63.91	64.17	63.95	64.4	64.75
200	57.79	59.77	60.76	63.2	64.67	65.57	65.83	66.27	65.96	65.89	66.75	67
250	63.43	65.43	67.03	68.45	69.29	69.29	69.19	69.35	69.7	70.53	71.14	71.69
320	63.47	65.69	67.13	68.19	68.84	69.21	69.4	69.54	69.65	69.95	70.35	71.04
400	61.41	64.13	66.07	67.53	68.45	68.64	69.17	69.63	70.2	70.79	71.34	71.8
500	62.37	65.16	66.89	68.14	68.73	68.97	69.28	69.9	70.49	71	71.91	72.63
630	61.36	64.54	66.54	67.77	68.49	68.92	69.38	70.09	70.88	71.45	72.03	72.84
800	60.84	64.64	66.68	67.13	67.24	67.65	68.53	69.04	69.61	70.41	71.23	71.67
1000	60.42	63.62	65.28	65.9	66.36	67.1	67.61	68.17	68.78	69.16	69.55	70.06
1300	59.32	62.42	63.85	64.33	64.8	65.47	66.06	66.61	67.25	67.61	67.93	68.28
1600	58	60.24	61.77	62.84	63.65	64.32	64.91	65.46	65.92	66.28	66.66	67.05
2000	57.11	59.71	61.26	62.32	62.99	63.57	64.11	64.55	64.96	65.32	65.56	65.67
2500	58.96	59.6	61.21	62.23	62.96	63.73	64.45	64.76	64.99	65.25	65.44	65.52
3200	58.57	59.15	60.94	62.36	63.61	64.49	65.29	65.55	65.76	65.89	65.64	65.47
4000	56.27	59.47	61.44	62.79	63.57	64.85	65.42	65.12	65.25	65.5	65.56	65.82
5000	56.49	60.6	62.42	63.26	63.75	64.96	65.86	65.76	65.73	65.92	66.19	66.27
6300	57.48	61.53	63.49	64.86	65.15	66.1	66.87	66.92	66.86	66.96	66.98	67.05
8000	58.76	63.41	65.01	65.7	66.07	67.18	66.13	66.04	67.92	68.02	68.18	68.36
10000	58.81	62.57	64.06	65.19	66.15	66.91	67.16	67.04	66.6	66.82	67.15	66.64
OASPL	74.29	75.86	77.37	78.45	79.15	79.79	80.23	80.56	80.83	81.33	81.84	82.27

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.95	63.78	64.82	65.38	65.24	66.72	67.48	67.29	67.23	68.34	69.33	106.68
100	63.88	64.39	64.12	63.76	63.51	63.01	63.28	64.39	65.82	66.96	67.66	105.73
130	64.44	65.06	65.66	66.08	66.38	66.66	66.97	67.3	67.61	67.96	68.37	107.54
160	64.56	63.75	64.04	64.68	65.7	66.58	67.13	67.36	67.25	66.69	65.85	107.13
200	67.86	66.35	69.04	69.21	68.93	68.83	68.02	67.24	66.63	66.37	61.91	109.52
250	72.3	72.9	73.18	73.44	73.69	73.64	73.35	72.72	71.76	70.76	69.47	114.01
320	71.71	72.42	73.08	73.39	73.29	72.92	72.17	71.03	69.61	67.56	63.69	113.5
400	72.19	72.41	72.45	72.23	71.77	71.19	70.37	69.32	68.1	66.66	64.2	113.13
500	73.16	73.59	73.79	73.64	73.08	72.17	71.08	69.83	68.48	67.01	64.16	113.91
630	73.63	74.21	74.5	74.15	73.07	71.52	69.6	67.65	66.03	65.07	64.94	114.02
800	71.93	72.34	72.44	71.71	70.18	68.33	66.53	65.18	64.24	63.28	62.97	112.45
1000	70.33	70.33	70.36	70.35	69.46	67.45	65.4	63.69	62.5	61.9	62.12	111.08
1300	68.48	68.53	68.46	67.9	66.56	64.79	63.32	62.1	61.1	60.44	60.57	109.28
1600	67.49	67.8	66.04	67.63	66.35	64.65	63.06	61.65	60.46	59.67	59.75	108.31
2000	65.78	65.92	65.91	65.48	64.35	62.76	61.15	59.68	58.43	57.64	57.7	108.95
2500	65.34	65.22	65.11	64.74	63.59	61.53	59.64	58.07	56.83	56.23	56.46	106.66
3200	65.32	64.93	64.86	64.53	63.33	61.53	59.65	57.85	56.54	55.83	55.55	106.9
4000	65.35	64.55	64.38	63.65	62.47	60.8	58.9	56.97	55.31	54.21	54.13	106.73
5000	65.73	64.9	64.74	64.23	62.73	60.89	59.03	57	55.21	54.27	54.26	107.18
6300	66.66	65.78	65.65	65.1	63.47	61.57	59.65	57.64	55.83	54.75	54.45	108.18
8000	67.76	66.63	66.37	65.91	64.47	62.74	60.75	58.67	56.73	55.45	55.01	109.28
10000	65.97	65.33	65.77	65.86	64.34	61.95	59.83	57.7	55.58	54.3	54.04	108.38
OASPL	82.57	82.79	83.02	82.88	82.26	81.47	80.81	79.7	78.87	78.2	77.37	123.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg	276
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	594.43
m01	0.20185
pamb	14.2872
tamb	501.267
rhumid	90.12
winds1	0
nprc	1.169
nprb	1.213
ptc	16.7017
ptb	17.3304
wacic	1.974
wactb	9.396
ttc	1099.19
ttb	497.596
ptmix	17.2212
ttmix	802.042
mixpnd	0.494132
gravtxp	6758.67
badchan	(04,26)
bkgnd	264
escdate	25.Nov.96
esctime	17:19:18
DADSdate	25.Nov.96
DADStime	17:19:18
btchdate	25.Nov.96
btchtime	17:19:18

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:58:37 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	35.19	38.5	38.93	38.89	41.47	40.47	41.82	42.37	40.61	43.98	44.02	43.31
100	31.87	32.95	37.74	38.87	39.49	39.38	42.43	41.13	41.2	41.01	40.98	43.3
130	46.66	42.9	38.91	40.97	41.71	42.1	43.59	42.57	42.78	44.73	44.49	44.27
160	35.42	37.86	38.43	39.64	43.1	43.69	45.61	43.73	43.39	43.8	43.94	43.84
200	37.4	39.81	43.63	45.58	47.94	47.8	48.82	45.99	45.22	45.34	46.04	46.87
250	42.04	44.73	46.95	48.48	48.97	49.35	49.26	48.91	50.38	50.66	51.79	51.89
320	39.55	41.88	43.5	45.24	46.81	47.5	47.76	48.93	48.42	48.59	48.03	48.38
400	37.99	41.44	44.21	46.12	47.12	47.46	47.98	48.71	49.42	49.78	50.17	50.25
500	38.42	41.91	44.08	45.57	46.5	47.19	47.74	48.62	49.38	49.98	50.7	51.14
630	37.2	41.22	43.43	44.17	44.87	45.39	46.4	48.45	49.08	49.71	50.16	50.62
800	35.85	40.17	42.49	43.25	43.85	44.74	45.18	46.98	47.61	47.84	48.04	48.11
1000	34.01	37.72	39.9	40.78	41.4	42.22	42.98	45.63	46.02	46.15	46.11	46.27
1300	32.56	35.64	37.37	38.81	38.96	40.83	41.44	43.58	44.14	44.38	44.39	43.96
1600	30.42	33.61	35.77	37.18	38.23	39.02	39.73	41.88	42.13	42.2	42.18	42.14
2000	28.57	32.08	34.38	36.04	37.18	38.2	39.05	40.25	40.62	40.75	40.77	40.45
2500	26.69	30.27	32.59	34.43	36	37.38	38.44	39.47	39.72	39.84	39.71	39.35
3200	23.25	27.18	30.11	32.32	33.83	35.26	36.22	38.81	38.95	38.89	38.32	37.82
4000	15.08	24.12	27.12	29	30.22	32.06	33.37	36.13	36.27	36.35	36.24	35.87
5000	0	9.77	20.33	23.86	25.71	27.42	28.7	33.37	33.28	33.28	33.04	32.6
6300	0	0	0	-0.51	6.61	14.89	19.53	29.03	29.01	28.91	28.5	27.99
8000	0	0	0	0	0	0	0	19.58	19.24	19.22	18.27	18.42
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	50.68	51.98	53.84	55.29	56.44	56.89	57.6	58.08	58.5	58.98	59.32	59.53
PNL	54.45	57.72	60.13	61.75	62.82	63.76	64.74	65.18	65.43	65.67	65.95	66.08

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	42.95	42.51	42.29	43.1	41.85	40.29	38.78	37.83	37.18	36.1	34.13	105.98
100	41.77	41.95	42.14	40.81	42.23	40.72	39.4	38.41	37.83	36.84	35.2	105.3
130	43.75	43.95	43.28	43.06	43.08	43.21	43.71	42.73	41.05	38.4	34.88	107.94
160	44.34	42.83	42.4	42.24	43.2	42.24	40.58	38.8	38.23	35.87	30.92	108.94
200	47.33	47.3	48.16	47.61	46.95	47.42	45.7	43.8	41.51	40.08	38.04	110.87
250	52.48	52.52	52.57	51.98	51.55	50.13	48.2	48.04	42.89	38.82	33.25	114.47
320	48.89	48.65	49.14	48.51	47.73	46.35	44.89	42.13	39.12	34.98	29.11	111.39
400	49.95	50.01	49.49	48.91	47.3	46.08	43.71	41.63	38.48	34.85	28.52	111.97
500	51.4	51.25	50.85	49.82	48.25	45.57	42.82	39.33	35.71	31.98	28.75	112.41
630	50.74	50.89	50.18	48.78	46.25	43.38	39.99	36.62	33.5	29.59	25.38	111.52
800	47.65	47.44	46.82	45.62	43.64	40.7	37.3	33.78	30.02	26.05	21.74	109.21
1000	46.35	45.8	44.88	43.28	40.97	37.64	34.47	31.29	27.73	23.8	18.89	107.26
1300	43.53	43.12	42.73	41.43	38.96	35.78	32.58	29.42	25.88	21.4	14.12	105.24
1600	41.97	41.59	41.02	39.79	37.43	34.29	30.7	26.78	22.49	17.01	0	103.44
2000	39.93	39.23	38.08	36.56	34.26	30.84	27.11	23.2	18.55	0	0	101.59
2500	38.56	37.68	36.83	35.31	32.75	29.24	25.34	20.9	0	0	0	100.46
3200	37.06	35.73	34.48	32.8	30.1	26.47	22.12	8.41	0	0	0	98.85
4000	34.75	33.09	31.88	29.98	26.79	22.57	9.78	0	0	0	0	96.22
5000	31.28	29.56	28.09	25.83	20.88	-2.14	0	0	0	0	0	92.68
6300	26.65	23.9	21.13	14.93	0	0	0	0	0	0	0	87.39
8000	7.81	0	0	0	0	0	0	0	0	0	0	78.56
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	59.6	59.45	59.24	58.44	57.35	55.87	53.98	51.85	49.41	46.71	42.77	121.56
PNL	65.92	65.48	64.94	63.75	61.91	59.48	56.59	53.31	49.14	44.15	38.94	65.46

NASA Lewis Allison AST Jet Noise Test 1996

rdg 275
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 824.02
m01 0.20093
pamb 14.2907
tamb 501.342
rhumid 90.2
winds1 0
nprc 1.389
nprb 1.443
ptc 19.8496
ptb 20.6215
wactc 2.788
wactb 13.486
ttc 1164.39
ttb 497.178
ptmix 20.4693
ttmix 811.482
mixpnd 0.679678
grsvixp 13410.1
badchan (04,26)
bkgnd 264
escdate 25.Nov.96
esctime 17:11:55
DADSdate 97.08.18
DADStime 17:11:55
bichdate 25 Nov 96
bichtime 17:11:55
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 10:55:48 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: ((	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	67.99	69.38	69.82	69.99	70.4	71.23	72.09	72.53	72.47	72.25	72.21	72.52
100	68.13	68.75	69.95	71.11	71.78	71.79	71.63	71.81	72.48	73.38	74.16	74.74
130	72.66	71.23	70.71	70.72	70.95	71.26	71.61	71.96	72.3	72.62	72.93	73.36
160	71.78	72.87	72.75	72.22	71.86	71.87	72.17	72.63	73.04	73.44	74.19	75.3
200	73.3	72.79	72.71	73.18	73.64	73.84	74.03	74.58	74.34	74.12	75.04	76.44
250	72.38	73.05	73.27	73.58	74.11	74.39	74.25	74.91	74.73	75.46	77.27	77.63
320	72.88	73.9	74.52	74.74	75.18	75.47	75.67	75.84	76	76.37	77.34	78.25
400	71.86	73.49	74.28	74.7	75.15	75.41	75.8	76.51	76.98	77.02	77.59	78.46
500	72.36	73.43	74.43	75.19	75.73	76.29	76.65	76.8	77.48	77.82	77.98	78.66
630	71.32	72.74	73.77	74.55	75.17	75.65	75.93	76.3	76.82	77	77.22	78.32
800	71.26	73.51	74.69	74.98	75.14	75.59	75.9	76.23	76.73	77.32	77.66	78.22
1000	71.02	72.38	73.33	74.01	74.5	74.89	75.58	76.17	76.77	77	76.83	77.48
1300	70.56	72.01	72.92	73.38	73.83	74.28	74.86	75.8	76.44	76.78	76.57	76.92
1600	70.08	71.36	72.11	72.62	73.1	73.62	74.13	74.58	74.88	75.07	75.56	76.19
2000	69.64	71.15	72.28	72.87	73.23	73.6	74.03	74.29	74.44	74.52	74.83	75.56
2500	69.37	70.89	72.09	72.98	73.15	73.31	73.64	74.03	74.5	74.32	73.93	74.37
3200	69.19	70.74	72.01	73.18	73.63	73.78	74.12	74.16	74.37	74.02	73.85	74.22
4000	68.54	70.81	72.42	73.39	73.56	73.76	74.07	73.89	74.23	74.01	73.88	73.93
5000	68.17	70.92	72.47	73.46	73.39	73.88	74.09	74	74.07	73.56	73.45	73.41
6300	67.88	70.84	72.57	73.74	73.59	74.08	74.6	74.5	74.97	74.51	73.63	73.43
8000	68.18	71.38	73.11	74.29	73.91	74.42	75.04	74.97	75.43	75.09	74.49	74.03
10000	67.23	69.39	70.93	72.81	73.32	73.96	73.48	73.22	73.91	73.38	72.93	71.57
OASPL	84.06	85.33	86.22	86.87	87.18	87.58	87.88	88.19	88.57	88.68	88.95	89.52

distance: ((	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.13	73.96	74.92	75.97	77.04	78.11	79.16	80.16	81.17	82.33	84.06	118.04
100	75.21	75.71	76.35	77.13	77.97	78.81	79.8	80.35	81.13	82.11	83.88	118.65
130	74.25	75.38	76.47	77.45	78.41	79.45	80.59	81.36	81.69	82.08	83.07	118.83
160	76.13	76.99	78.21	78.84	79.07	79.87	81.07	82.07	82.59	82.81	82.89	119.78
200	77.28	77.84	78.54	78.98	79.15	79.67	80.17	80.68	80.86	80.58	79.72	119.73
250	78.22	79.01	80.09	80.74	80.8	80.93	81.19	81.15	80.87	80.57	80.07	120.71
320	78.54	79.21	79.53	79.2	79.38	80.36	80.49	79.73	78.64	77.47	76.3	120.44
400	78.73	79.25	79.72	79.84	79.6	79.22	78.97	78.79	78.18	77.06	75.88	120.42
500	79.67	80.14	80.4	79.92	79.07	78.59	77.93	77.13	76.26	75.43	74.22	120.62
630	78.58	78.91	79.12	78.71	77.94	77.31	76.76	76.15	75.31	74.29	73.1	119.71
800	78.63	79.03	79.09	78.3	77.2	76.44	75.79	75.17	74.47	73.48	72.21	119.64
1000	77.9	78.11	78.6	77.99	76.53	75.63	75.04	74.02	72.64	71.71	71.17	119
1300	77.45	77.81	77.98	76.58	75.32	76.81	76.06	74.1	72.72	71.6	70.64	118.57
1600	76.56	77.06	76.83	75.59	74.17	73.37	72.43	71.35	70.33	69.5	68.95	117.36
2000	76.14	76.3	75.91	74.39	72.56	71.62	71.1	70.3	69.14	68.14	67.56	116.81
2500	74.73	75.09	74.75	73.3	71.71	70.81	69.91	68.83	67.79	66.99	66.67	116.14
3200	74.31	74.18	73.87	72.42	70.65	69.7	68.98	68.02	66.87	65.98	65.74	115.91
4000	73.73	72.86	72.32	71.33	69.87	68.8	67.69	66.47	65.31	64.73	64.83	115.6
5000	73.25	72.51	71.53	70.18	68.74	67.63	66.47	65.21	64.09	63.5	63.6	115.31
6300	73.19	72.46	71.21	69.4	67.73	66.68	65.7	64.55	63.46	62.95	63.12	115.64
8000	73.36	72.5	71	68.92	67.28	66.5	65.66	64.48	63.26	62.54	62.63	115.95
10000	71.1	70.85	69.54	67.61	65.92	64.71	63.64	62.39	61.1	60.29	60.37	114.4
OASPL	89.94	90.33	90.83	90.41	90.09	90.29	90.53	90.63	90.63	90.68	91.08	131.9

NASA Lewis Allison AST Jet Noise Test 1996

rdg	275
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	824.02
m01	0.20093
pamb	14.2907
tamb	501.342
rhumid	90.2
winds1	0
nprc	1.389
nprb	1.443
ptc	19.8498
ptb	20.6215
wactc	2.788
wactb	13.486
ttc	1164.39
ttb	497.178
ptmix	20.4893
ttmix	611.462
mixpnd	0.679678
grsvixp	13410.1
badchan	(04,26)
bkgnd	264
eacdate	25.Nov.96
eactime	17:11:55
DADSdate	97.08.18
DADStime	17:11:55
btchdate	25.Nov.96
btchtime	17:11:55

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 10:55:59 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	44.61	47.91	48.76	49.66	50.26	50.15	52.02	52.49	50.58	52.81	52.25	52.04	52.07	52.24	52.48	54.89	54.32	53.79	53.16	52.6	51.84	50.85	49.71	117.31
100	45.19	45.51	49.11	49.71	50.22	49.87	51.7	51.74	51.51	51.52	51.71	53.72	54.14	54.43	54.52	54.38	56	55.65	55.12	54.41	53.49	52.41	51.2	118.48
130	51.17	50.08	49.51	51.16	51.03	50.79	52.12	51.84	51.98	53.59	53.35	53.09	53.15	55.23	55.71	56.02	55.89	55.75	56.78	56.27	55.23	53.51	51.1	119.48
160	52.24	53.01	52.17	51.79	53.11	53.07	53.92	52.45	52.28	53.25	53.72	54.71	55.98	55.75	55.51	54.92	55.37	54.91	54.54	53.96	53.34	51	47.49	118.99
200	49.77	50.17	51.55	51.7	53.12	53.45	54.04	54.31	53.58	53.77	54.4	55.89	55.75	55.8	57.02	56.92	56.09	56.39	55.47	54.3	52.48	50.95	47.59	119.51
250	50.14	52.07	53.43	54.42	54.87	55.18	55.51	54.47	55.02	55.31	57.23	57.45	56.11	58.33	58.5	57.73	57.38	56.82	55.69	53.91	51.05	47.42	43.14	120.54
320	49.89	51.13	52.13	52.51	53.72	54.32	54.42	55.25	55.01	55.47	55.74	56.52	56.64	56.59	56.87	55.91	55.4	54.4	53.5	51.52	49.04	46.23	42.1	119.1
400	48.71	50.64	52.24	53.53	54.29	54.92	55.42	55.59	56.13	56.17	56.75	56.88	56.63	57.19	57.2	56.85	55	53.66	51.71	49.92	47.11	43.59	38.88	119.26
500	48.07	49.76	51.18	52.51	53.36	53.96	54.19	55.54	56.14	56.5	56.31	57.1	57.53	57.33	56.78	55.33	53.68	51.98	50.23	47.79	44.76	41.13	36.36	118.73
630	46.89	49.34	50.81	51.43	52.29	53.09	53.8	54.64	55.06	55.23	55.47	55.91	55.85	55.88	55.2	53.66	51.78	50.07	48	45.61	43.06	39.23	34.1	117.43
800	46.48	48.88	50.4	51.3	51.86	52.5	53.05	54.14	54.61	54.82	54.77	55.05	55.02	54.89	54.68	53.28	51.12	49.04	46.67	44.28	40.74	36.42	30.82	116.76
1000	45.19	47.14	48.77	49.86	50.43	51.03	51.75	53.62	54.08	54.14	53.79	53.94	53.65	53.51	53.2	51.34	48.61	47.33	46.08	42.8	38.65	34.17	28.24	115.51
1300	44.1	45.99	47.21	48.29	49.14	49.86	50.49	52.58	53.28	53.48	53	52.88	52.94	52.56	51.94	49.83	47.5	46.08	42.56	39.38	35.9	31.34	25.09	114.39
1600	42.83	45.1	46.66	47.67	48.38	49.09	49.7	50.99	51.2	51.08	51.29	51.73	51.91	51.73	50.36	47.92	45.1	42.63	40.22	37.05	32.94	27.89	21.16	112.92
2000	41.08	43.54	45.44	46.86	47.4	47.9	48.34	49.98	50.16	50.1	49.99	50.22	49.95	49.36	48.21	45.74	42.81	40.53	37.87	34.38	30.04	24.62	14.11	111.39
2500	39	41.32	43.39	45.21	46.11	46.52	47.19	48.76	49.13	48.76	48.12	48.13	47.7	47.38	46.16	43.66	40.66	37.85	34.92	31.15	26.35	20.08	0	109.68
3200	36.02	39.01	41.41	43.01	43.79	44.45	45.03	47.4	47.58	47.03	46.36	46.48	45.84	44.6	43.17	40.63	37.54	34.69	31.29	27.04	21.29	0	0	107.63
4000	30.85	34.79	37.54	39.63	40.26	41.04	41.55	44.91	45.24	44.81	44.29	43.74	42.92	41.26	39.31	36.7	33.47	30.08	26.12	20.09	0	0	0	104.71
5000	23.25	28.39	31.48	33.67	34.58	35.74	36.52	41.57	41.57	40.85	40.31	39.59	36.6	36.8	34.44	31.15	27.3	22.72	13.64	0	0	0	0	100.37
6300	0	14.03	21.55	25.06	25.81	27.29	28.72	36.64	37.13	36.45	35.09	34.21	32.86	30.82	27.77	22.77	14.11	0	0	0	0	0	0	94.81
8000	0	0	0	0	0	0	0	28.9	29.32	28.87	27.23	25.51	22.86	18.89	1.58	0	0	0	0	0	0	0	0	88.07
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	59.96	61.27	62.35	63.18	63.97	64.36	65.03	65.6	65.77	66.11	66.36	66.85	67.04	67.14	67.08	66.42	65.71	65.04	64.29	63.11	61.58	59.64	57.17	129.79
PNL	66.33	68.49	70.21	71.46	72.18	72.7	73.3	73.79	74.07	74	73.77	73.99	73.84	73.54	72.94	71.73	69.95	68.43	66.78	64.5	61.35	58.01	53.29	74.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	274
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	939.61
m01	0.20221
pamb	14.292
tamb	501.499
rhumid	89.06
winds1	0
nprc	1.543
nprb	1.611
ptc	22.0526
ptb	23.0244
wactc	3.074
wactb	15.801
ttc	1301.2
ttb	496.831
ptmix	22.8661
ttmix	627.831
mbpnd	0.76486
grsvbp	17735.1
badchan	(26)
bkgnd	264
escdate	25.Nov.96
esctime	16:57:12
DADSdate	25.Nov.96
DADStime	16:57:12
bichdate	25.Nov.96
bichtime	16:57:12

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:55:43 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.52	72.69	73.59	74.29	74.85	75.32	75.73	76.12	76.5	76.91	77.35	77.85	78.44	79.16	80.04	81.08	82.31	83.72	85.32	87	88.7	90.53	92.87	124.26
100	73.15	73.89	74.61	75.29	75.94	76.55	77.13	77.68	78.2	78.69	79.15	79.61	80.12	80.74	81.51	82.47	83.63	85.01	86.6	88.21	89.71	91.12	92.68	125.33
130	74.32	74.87	75.32	75.71	76.05	76.37	76.69	77	77.33	77.69	78.07	78.56	79.32	80.49	82.17	83.66	84.58	85.47	86.63	87.89	89.06	90.11	91.21	125.05
160	75.9	76.39	76.74	77	77.23	77.47	77.76	78.1	78.54	79.08	79.72	80.48	81.33	82.25	83.22	84.21	85.23	86.26	87.28	88.18	88.84	89.33	89.79	125.58
200	76.01	77.12	77.64	77.89	78.09	78.34	78.67	79.09	79.58	80.12	80.71	81.32	81.88	82.5	83.29	84.2	85.16	86.12	87.03	87.77	88.19	88.2	87.77	125.55
250	76.91	77.43	77.88	78.29	78.69	79.06	79.5	79.95	80.44	80.99	81.59	82.26	82.99	83.76	84.58	85.38	86.22	87.11	88.03	88.77	89.06	88.85	87.99	126.48
320	77.55	78.28	78.75	79.04	79.24	79.41	79.62	79.9	80.31	80.83	81.45	82.16	82.91	83.66	84.38	85.09	85.79	86.43	86.93	86.96	86.48	85.71	84.41	125.75
400	77.17	78.04	78.54	78.95	79.5	80.26	80.99	81.41	81.76	82.16	82.39	82.85	83.66	84.15	85.03	85.49	85.36	85.16	85.15	85.03	84.49	83.62	82.47	125.87
500	77.44	78.4	79.01	79.39	79.62	79.8	80.07	80.47	81.06	81.7	82.45	83.19	83.76	84.39	85.14	84.98	84.42	84.37	84.45	84.09	83.09	81.85	80.87	125.3
630	76.92	78.12	78.72	79	79.23	79.66	80.3	80.88	81.3	81.8	82.44	82.7	82.64	83.35	84.22	84.15	83.6	83.42	83.08	82.41	81.45	80.01	78.62	124.66
800	76.82	78.21	78.94	79.3	79.57	79.9	80.32	80.76	81.3	81.75	82.01	82.58	83.16	83.47	83.56	83.43	83.2	82.95	82.17	81.05	79.84	78.71	77.78	124.42
1000	76.51	77.92	78.18	78.36	78.69	79.29	79.88	80.55	81.12	81.47	82.03	82.54	83.22	83.65	83.6	82.96	81.96	81.54	81.05	80.02	78.62	77.29	76.23	124.03
1300	76.12	77.41	77.93	78.19	78.62	79.32	79.93	80.5	81.09	81.56	81.94	82.77	83.55	83.99	84.01	83.25	81.98	80.84	79.88	78.78	77.42	76.17	75.4	124.01
1600	75.54	77.18	77.55	77.71	77.92	78.4	78.94	79.66	80.11	80.65	81.16	82.11	83.07	83.7	83.34	82.04	80.47	79.28	78.45	77.47	76.17	74.97	74.25	123.21
2000	75.39	76.66	77.18	77.68	78.06	78.35	78.78	79.34	79.81	80.2	80.75	81.82	83.06	83.46	82.72	81.19	79.59	78.38	77.38	76.18	74.78	73.63	73	122.81
2500	74.48	75.89	76.8	77.19	77.68	78.13	78.58	79	79.31	79.66	80.2	81.19	82.41	83.32	82.37	80.38	78.56	77.18	76.11	74.99	73.66	72.52	71.96	122.28
3200	74.14	75.71	76.43	77.08	77.6	78.14	78.53	78.83	79.12	79.37	79.61	80.27	81.09	81.7	81.2	78.46	77.51	76.08	74.82	73.5	72.16	71.19	70.91	121.54
4000	73.55	75.38	76.25	76.96	77.37	77.9	78.33	78.52	78.61	78.45	78.59	79.33	79.67	79.59	79.11	77.64	76.09	74.54	73.32	71.97	70.52	69.58	69.53	120.55
5000	72.67	75.22	75.94	76.52	76.68	77.38	78.05	78.23	77.88	77.77	77.91	78.27	78.19	77.91	77.33	76.1	74.53	73.16	71.89	70.41	68.96	68.27	68.44	119.65
6300	72.24	74.95	75.56	76.11	76.2	76.93	77.9	78.44	78.28	77.9	77.17	77.56	77.63	77.04	76.05	74.74	73.28	71.85	70.51	69.2	68.07	67.43	67.41	119.21
8000	71.81	75.07	75.52	75.99	76.05	76.68	77.78	78.54	78.58	78.13	77.42	77.86	77.45	76.57	75.47	73.96	72.41	71.11	69.9	68.53	67.23	66.5	66.54	119.15
10000	70.34	73.35	73.03	73.96	74.81	75.22	75.77	76.92	76.88	76.03	75.38	75.3	75.06	74.49	73.57	72.32	70.74	68.99	67.41	65.76	64.22	63.46	63.71	117.2
OASPL	88.72	90	90.53	90.84	91.26	91.73	92.24	92.72	93.09	93.43	93.83	94.47	95.12	95.66	95.97	95.97	95.99	96.34	96.89	97.43	97.89	98.37	99.12	137.31

NASA Lewis Allison AST Jet Noise Test 1996

rdg	274
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	939.61
m01	0.20221
pamb	14.292
tamb	501.499
rhumid	89.06
winds1	0
nprc	1.543
nprb	1.611
ptc	22.0526
ptb	23.0244
wactc	3.074
wactb	15.801
ttc	1301.2
ttb	496.831
ptmix	22.8681
ttmix	827.831
mixpnd	0.76496
grsvlap	17735.1
badchan	(26)
bkgnd	264
escdate	25.Nov.96
esctime	16:57:12
DADSdate	25.Nov.96
DADStime	16:57:12
btchdate	25.Nov.96
btchtime	16:57:12

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 01:55:48 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.25	53.11	53.83	53.98	54.45	54.92	57.51	58.07	54.61	58.01	57.71	57.49	57.37	57.38	57.48	60.33	60.21	60.3	60.44	60.64	60.57	60.15	59.42	124.02
100	51.28	51.72	54.59	55.18	55.67	55.31	58.81	57.61	57.16	56.72	58.55	58.52	58.65	58.46	58.13	57.86	61.34	61.26	61.38	61.47	61.23	60.51	59.1	124.5
130	53.38	53.86	54.1	56.01	56.18	56.08	57.69	58.89	57.01	58.4	58.25	58.29	58.71	60.98	61.32	61.58	61.57	61.74	62.92	62.82	61.82	60.26	58.07	125.35
160	53.72	56.22	56.74	56.84	57.9	57.64	58.56	57.92	57.85	58.97	59.44	59.98	60.91	60.5	60.81	60.95	62.08	61.92	61.29	60.61	60.48	58.73	55.84	124.97
200	53.98	54.62	56.23	56.57	57.88	58.12	59.27	58.81	58.75	59.53	59.58	60.32	60.17	60.23	61.13	61.17	61.15	62.41	62.37	61.97	60.73	59.34	55.78	125.31
250	55.45	56.58	57.88	58.72	58.87	59.27	59.39	59.52	60.64	60.8	61.83	62.08	62.92	63.11	63.61	63.43	63.56	62.78	61.74	60.76	58.54	55.38	51.32	125.98
320	54.51	55.33	56.04	56.89	57.94	58.98	59.61	59.29	59.38	59.9	59.72	60.47	60.98	60.91	61.33	61.2	61.28	60.6	60.05	58.29	56.07	53.25	48.98	124.18
400	54.18	55.98	57.1	57.73	58.14	58.45	58.91	60.49	60.94	61.19	61.25	61.3	61.58	61.92	62.34	62.04	60.32	59.27	58.03	56.69	53.8	50.03	45.33	124.24
500	53.08	54.48	55.54	56.41	57.17	57.77	58.48	59.21	59.76	60.34	61.01	61.49	61.33	61.33	61.85	60.54	58.98	57.51	56.16	53.88	50.74	46.89	42.02	123.21
630	52.57	54.38	55.86	56.42	57.05	57.54	58.16	59.23	59.5	59.93	60.26	60.17	59.97	60.2	59.96	59.12	57.81	56.6	54.65	51.88	48.78	44.52	39.28	122.29
800	51.93	54.09	55.03	55.62	56.1	56.85	57.41	58.66	59.26	59.33	59.34	59.88	60.02	59.83	59.26	58.13	56.53	54.98	52.85	50.04	46.36	41.78	36.25	121.55
1000	50.81	52.79	53.59	54.2	54.98	55.9	56.8	58	58.38	58.56	58.88	59.26	59.62	59.37	58.81	57.31	55.27	52.98	50.54	47.61	43.71	38.97	32.95	120.72
1300	49.42	51.8	52.77	53.38	54.03	54.72	55.27	57.45	57.98	58.29	58.46	58.84	59.1	59.07	58.29	56.31	53.83	51.49	48.83	45.6	41.52	36.65	30.28	120.01
1600	48.35	50.44	51.51	52.46	53.14	53.72	54.44	56.06	56.44	56.64	57.05	57.7	58.29	58.21	56.69	54.58	51.78	49.13	46.57	43.18	38.81	33.55	26.74	118.72
2000	46.63	48.94	50.21	51.18	52.07	52.8	53.29	55.03	55.47	55.63	55.91	56.65	57.4	57.32	55.5	52.81	49.93	46.91	43.97	40.44	35.86	30.09	22.66	117.53
2500	44.07	46.42	47.92	49.31	50.3	51.1	51.69	53.71	54.03	54.2	54.4	54.84	55.3	55.41	53.73	50.57	47.31	44.34	41.01	36.96	32.09	26.08	15.06	115.71
3200	40.93	43.78	45.48	46.85	47.78	48.73	49.34	52.1	52.25	52.3	52.08	52.25	52.31	51.94	50.4	47.54	44.1	40.57	38.89	32.42	26.78	18.2	0	113.12
4000	35.96	39.24	41.15	42.71	43.53	44.65	45.52	49.57	49.58	49.12	48.89	48.97	48.48	47.26	45.53	42.93	39.48	35.79	31.77	26.56	17.61	0	0	109.48
5000	28.25	32.8	34.71	38.32	37.29	38.8	39.93	45.79	45.41	45.08	44.67	44.35	43.37	41.94	39.83	36.68	32.89	28.75	23.38	11.32	0	0	0	104.65
6300	11.13	21.79	25.14	27.42	28.83	30	31.59	40.62	40.41	39.81	38.58	38.26	37.38	35.21	32.41	28.94	24.01	15.86	0	0	0	0	0	98.57
8000	0	0	0	0	0	2.61	10.93	32.53	32.59	31.74	30.39	29.76	27.73	24.69	19.91	3.46	0	0	0	0	0	0	0	89.72
10000	0	0	0	0	0	0	0	14.45	13.79	5.69	0	0	0	0	0	0	0	0	0	0	0	0	0	69.66
OASPL	64.35	65.93	67.01	67.73	68.39	68.62	69.06	70.24	70.53	71.04	71.27	71.88	71.99	72.13	72.14	71.77	71.52	71.12	70.73	70.03	69	67.48	65.28	135.31
PNL	71.55	73.71	74.96	75.89	76.89	77.35	78.05	78.65	78.92	79.18	79.31	79.7	80.01	79.93	78.97	77.55	76.15	74.82	73.38	71.61	69.3	66.51	62.09	79.9

NASA Lewis Allison AST Jet Noise Test 1996

rdg 273
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 980.99
m01 0.20054
pamb 14.2947
tamb 501.637
rhumid 88.09
winds1 0
nprc 1.742
nprb 1.82
ptc 24.9014
ptb 26.0184
wactc 3.443
wactb 18.207
ttc 1387.08
ttb 496.265
ptmix 25.839
ttmix 637.928
mixpnd 0.800275
grsvixp 21454.9
badchan (26)
bkgnd 264
escdate 25.Nov.96
esctime 16:50:26
DADSdate 97.08.25
DADStime 16:50:26
btchdate 25.Nov.96
btchtime 16:50:26
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 10:20:44 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.15	78.36	78.31	79.16	78.67	78.94	79	79.25	78.92	79.44	79.95	80.65	80.73	82.19	83.78	85.03	86.59	88.66	90.64	92.61	94.63	96.58	98.81	129.34
100	79.94	80.36	80.87	81.79	80.87	80.57	80.22	81.1	81.71	82.66	81.72	82.28	83.73	85.4	86.94	87.99	89.44	91.8	93.45	94.68	96.04	97.66	99.42	131.27
130	79.79	81.6	81.7	80.15	79.1	80.29	79.94	80.39	80.76	80.58	80.54	82.63	83.46	84.52	85.58	86.96	88.91	91.03	93.06	94.94	96.67	98.34	100.1	131.3
160	80.75	82.56	82.29	82.44	81.89	81.49	81.16	81.29	82.61	83.85	84.93	85.44	85.26	86.01	87.17	88.56	90.03	91.43	93.08	94.78	96.23	97.29	97.9	131.41
200	80.36	82.4	82.49	82.45	82.69	83.03	83.55	83.2	83.07	84.42	84.57	85.35	87.06	87.97	88.53	88.98	89.77	91.21	92.11	93.07	94.31	95.16	95.74	130.8
250	79.64	81.87	81.34	80.83	81.78	82.17	83.51	83.28	83.38	84.56	85.33	86.21	87.25	88.49	88.95	90.07	91.85	92.88	93.62	94.06	94.33	94.72	94.42	131.37
320	81.47	82.91	81.95	81.8	81.81	83.25	83.3	83.06	84.18	85.27	85.87	86.23	86.5	87.36	89.09	90.44	91.27	92.18	92.65	92.5	91.89	91.48	90.85	130.58
400	80.73	81.75	81.78	82.45	82.87	82.62	83.28	83.83	84.53	84.97	85.99	87.43	87.22	88.19	88.8	90.06	91.48	91.66	91.8	91.78	91.25	90.34	88.86	130.39
500	80.81	83.53	82.73	82.93	83	83.15	83.06	83.91	84.44	85.07	85.89	86.05	87.14	88.27	89.09	89.65	90.15	90.66	90.74	90.33	89.48	88.65	87.35	129.81
630	80.3	82.71	82.43	82.42	82.58	82.95	83.67	83.94	84.33	85.11	86.23	88.73	87.11	87.87	88.38	88.99	89.49	89.15	89.16	88.86	87.82	86.7	85.52	129.19
800	80.94	82.74	83	83.04	82.48	83.66	83.62	84.12	84.51	85.62	85.99	86.99	87.7	88.06	88.52	88.29	87.76	87.91	88.1	87.77	86.77	85.27	83.79	128.91
1000	80.61	83.3	82.93	82.62	82.8	83.03	83.31	84.27	84.69	85.25	86.06	87.15	87.56	88.58	88.46	87.58	86.99	86.7	86.16	85.69	85.16	83.86	82.01	128.55
1300	80.9	83.06	82.72	82.35	82.35	83.32	83.88	84.26	85.32	85.98	86.93	87.33	88.24	88.73	88.31	87.21	86.19	85.65	85.55	84.84	83.43	82.25	81.27	128.53
1600	80.9	83	82.98	82.67	82.96	83.27	83.96	84.36	85.3	86.1	86.96	88.66	89.26	89.65	87.91	86.14	85.29	84.39	83.84	82.96	81.75	81.02	80.23	128.64
2000	81.35	84.72	83.65	83.5	83.3	83.76	84.43	84.76	85.96	86.93	87.85	89.42	90.21	90.77	88.42	85.79	84.49	83.36	82.59	81.86	80.39	79.42	78.95	129.21
2500	82.63	85.46	84.55	84.31	83.66	84.02	85.04	85.75	86.6	87.89	89.33	90.93	91.6	92.4	88.48	85.92	84.03	82.53	81.63	80.43	78.99	78.32	78.15	130.22
3200	83.76	86.87	86.19	85.15	84.78	84.95	86.25	86.42	87.81	89.6	90.88	92.53	92.81	92.99	90.18	86.63	84.18	82.38	81.31	79.84	78.07	77.69	77.78	131.31
4000	83.79	86.74	87.24	86.02	85.26	86.47	86.9	86.86	88.11	89.83	91.27	93.41	92.85	92.43	89.84	86.63	84.17	82.06	81.05	79.4	77.27	76.94	77.23	131.54
5000	83.07	86.48	87.06	86.15	84.87	86.75	86.91	86.74	86.98	88.64	90.31	92.36	91.89	91.37	89.03	86.05	83.51	81.24	80.26	78.53	76.27	76.25	76.71	130.78
6300	82.72	85.72	86.84	86.36	85.01	85.75	86.9	86.88	87.01	88.37	88.9	90.63	90.76	90.15	87.45	84.63	82.52	80.4	79.21	77.62	75.78	75.78	75.87	129.94
8000	81.83	84.56	86.67	86.76	85.4	85.94	87.03	86.57	86.8	87.91	88.15	89.96	89.56	88.8	86.27	83.71	81.92	80.19	79.2	77.3	75.03	75.19	75.4	129.38
10000	79.34	82.24	83.85	84.76	83.88	84.97	84.76	84.66	84.58	85.35	86.02	86.06	85.81	85.86	83.36	81.51	80.22	77.63	76.85	75.13	72.27	71.93	72.44	126.84
OASPL	94.72	97.22	97.35	97.07	96.56	97.06	97.74	97.92	98.56	99.71	100.65	102.06	102.3	102.62	101.61	101.06	101.41	102.06	102.85	103.57	104.34	105.28	106.35	143.55

NASA Lewis Allison AST Jet Noise Test 1996

rdg	273
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
ambc	35.02
ambb	78.39
scale	4
vid	990.99
m01	0.20054
pamb	14.2947
tamb	501.637
rhumid	88.09
winds1	0
nprc	1.742
nprb	1.82
ptc	24.9014
ptb	26.0184
wactc	3.443
wactb	18.207
ttc	1387.06
ttb	496.265
ptmix	25.839
ttmix	637.926
mixpnd	0.800275
gravixp	21454.9
badchan	(26)
bkgnd	264
eacdate	25.Nov.96
eactime	16:50:26
DADSdate	97.06.25
DADStime	16:50:26
btchdate	25.Nov.96
btchtime	16:50:26

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 10:20:54 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	55.78	59.52	59.16	59.83	58.88	59.04	60.57	59.21	57.04	60.86	60.24	60.26
100	56.9	57.32	59.84	59.59	58.2	58.62	60.07	61.03	60.71	60.76	59.13	61.51
130	59.05	60.58	60.55	61.5	60.92	60.24	61.12	60.28	60.44	61.47	61.19	62.04
160	57.82	62.02	61.61	61.83	62.42	62.28	63.39	61.11	61.97	63.7	64.64	65.01
200	57.92	59.52	60.05	59.22	61.09	61.3	63.31	62.93	62.29	64.22	63.49	64.04
250	58.56	60.93	61.03	61.4	61.14	62.96	63.08	62.65	63.28	64.27	65.94	65.97
320	58.38	59	59.74	60.09	61.49	61.21	61.98	62.46	63.54	64.62	64.08	64.81
400	57.5	60.64	60.3	61.2	61.51	61.9	61.91	62.91	63.53	63.85	64.98	65.82
500	56.45	59.37	59.41	60.21	60.47	60.97	61.75	62.65	63.2	63.58	64.22	64.15
630	56.72	59.1	59.6	59.83	60.04	61.49	61.55	62.29	62.51	63.39	64.3	64.44
800	55.75	59.34	59.49	59.61	60.02	60.29	60.73	62.02	62.49	63.48	63.56	64.07
1000	55.05	57.96	58.51	58.32	58.69	59.79	60.45	61.71	62.17	62.49	63.16	63.86
1300	54.52	57.53	57.6	58.34	58.64	59.53	60.23	61.21	62.27	62.78	63.57	63.83
1600	53.86	57.48	57.69	57.9	58.39	59.1	60.09	60.76	61.67	62.38	63.17	64.63
2000	53.64	57.56	57.47	57.71	57.91	58.45	59.56	60.47	61.67	62.59	63.45	64.82
2500	52.85	57.26	56.98	56.95	57.2	57.78	59.27	60.44	61.39	62.52	63.7	65.07
3200	50.91	54.75	55.93	55.69	55.53	56.06	57.8	59.88	61.06	62.74	63.81	65.22
4000	48.31	50.86	52.31	52.32	51.61	53.05	54.47	57.86	59.07	60.59	61.71	63.24
5000	38.71	43.98	45.91	46.12	45.85	47.33	48.79	54.38	54.47	55.84	56.92	58.23
6300	28.01	33.36	36.92	38.11	37.92	39.28	40.87	49.08	49.15	50.27	50.3	51.12
8000	0	8.79	20.48	23.22	23.34	25.65	26.83	40.62	40.81	41.62	41.15	41.75
10000	0	0	0	0	0	0	0	26.62	26.17	26.18	25.93	23.97
OASPL	68.81	71.49	71.72	72.01	72.25	72.76	73.61	74.03	74.54	75.56	76.13	76.88
PNL	77.85	81.48	81.68	81.84	82.06	82.7	83.88	84.37	85.27	86.57	87.38	88.49

distance: (	1655.07	1732.05	1831.16	1956.11	2121.32	2333.59	2615.17	3000	3549.3	4365.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.5	61.85	62.61	65.52	65.65	66.41	66.48	66.25	65.96	65.58	64.77	129.19
100	63.21	64.04	64.33	64.32	66.76	67.96	68.79	69.32	69.56	69.4	68.62	131.64
130	62.32	64.08	64.45	65.38	66.01	66.34	66.52	68.99	68.96	67.99	66.13	131
160	65.43	65.59	65.47	65.34	66.73	67.13	66.85	66.74	67.23	66.23	64.17	130.55
200	65.43	65.67	65.96	65.67	65.84	67.65	67.52	66.91	65.74	65.03	62.26	130.15
250	66.62	67.05	68.03	68.56	69.02	68.4	67.94	66.89	64.36	61.43	57.83	130.78
320	64.58	65.42	66.08	66.55	67.5	66.83	65.91	64.37	62.4	59.47	54.9	129.14
400	64.99	66.25	66.39	66.32	66.1	65.77	64.9	63.36	60.47	57.14	52.35	128.79
500	64.96	65.02	65.08	65.18	64.95	63.47	62.16	60.4	57.38	53.38	48.65	127.4
630	64.81	64.65	64.7	64.3	63.07	61.88	60.64	58.5	55.58	51.35	45.76	126.74
800	64.36	64.79	64.29	62.86	61.61	60.37	58.07	55.75	53.05	48.44	41.9	126
1000	63.94	64.28	63.18	61.41	59.52	57.87	56.37	53.9	49.94	45.09	38.66	125.08
1300	64.25	64.13	62.69	60.38	58.32	56.18	54.09	51.02	47.03	42.72	38.34	124.76
1600	64.78	64.59	61.85	58.97	56.75	54.14	51.64	48.33	44.06	39.2	32.63	124.51
2000	65	65.25	61.81	57.66	54.96	52.1	49.44	45.94	41.23	36.11	29.04	124.48
2500	65.28	65.3	61.67	56.96	53.32	50.08	46.98	43.04	37.81	32.03	24.05	124.38
3200	64.88	63.82	60.1	55.5	51.52	47.83	44.17	39.38	33.31	27.18	14.93	123.66
4000	62.04	60.57	56.85	52.44	48.18	43.61	38.83	34.47	27.03	17.51	0	121.1
5000	56.96	55.17	51.46	46.84	42.15	37.36	32.57	26.13	12.93	0	0	118.08
6300	50.17	48.25	43.82	38.82	33.93	28.45	21.88	-2.71	0	0	0	109.49
8000	39.94	37.38	32.42	26.75	20.28	0	0	0	0	0	0	99.97
10000	20.6	16.91	0	0	0	0	0	0	0	0	0	83.84
OASPL	77.09	77.37	76.86	76.59	76.82	76.8	76.75	76.32	75.66	74.67	72.99	140.71
PNL	86.26	86.05	85.72	82.99	82.04	80.89	79.86	78.22	75.74	73.56	70.25	86.93

NASA Lewis Allison AST Jet Noise Test 1996

rdg	277
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	564.05
m01	0.29747
pamb	14.2355
tamb	501.031
rhumid	89.76
winds1	0
nprc	1.174
nprb	1.215
ptc	16.7125
ptb	17.2961
wactc	1.743
wactb	9.151
ttc	1101.06
ttb	497.326
ptmix	17.2027
ttmix	593.925
mixpnd	0.472072
grsvlsp	6144.76
badchan	(04,26)
bkgnd	265
escdate	25.Nov.96
esctime	17:28:43
DADSdate	25.Nov.96
DADStime	17:28:43
blchdate	25.Nov.96
blchtime	17:28:43

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:00:39 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	58.55	61.3	61.33	60.94	62.55	63.66	64.25	64.47	64.42
250	62.73	65.56	67.17	68.63	69.01	69.22	69.44	69.71	70.09	70.57	71.06	71.38
320	51.31	65.27	66.94	67.72	68.82	67.94	68.65	69.27	69.92	70.33	70.49	71.11
400	56.39	62.97	65.48	67.42	67.53	66.86	68.63	69.54	69.92	69.62	69.67	71.04
500	56.12	65	67.17	67.65	67.71	68.84	69.13	69.26	69.94	70.86	71.46	71.62
630	53.52	64.16	66.04	67.47	67.28	68.35	68.5	69.09	70.04	70.67	71.14	71.9
800	56.86	64.41	66.63	66.38	66.37	66.55	68.02	68.71	69.23	69.64	69.92	70.29
1000	55.89	62.97	64.18	64.38	64.45	65.57	66.65	67.66	67.97	68.15	68.83	69.08
1300	53.57	61.89	62.77	63.92	63.8	64.81	66.37	67.25	67.26	66.82	66.93	66.85
1600	47.88	60.25	60.69	62.37	63.21	64.27	65.34	66.15	66.75	66.9	66.76	66.96
2000	45.83	59.22	59.54	60.75	61.4	62.06	63.18	64.09	64.57	64.63	64.71	65.07
2500	49.39	58.81	60.46	61.27	62.16	62.35	63.32	63.86	64.04	64.09	63.91	64.12
3200	51.53	60.22	60.89	61.97	62.71	63.33	64.55	64.82	65.02	64.84	64.43	64.57
4000	49.93	60.17	60.97	62.32	63.06	63.91	64.85	64.78	65.21	64.94	64.44	64.56
5000	54.18	61.34	62.5	63.4	63.63	64.55	65.8	65.87	65.76	65.54	65.4	65.24
6300	57.07	62.45	63.85	64.87	65.03	65.82	67	67.2	67.23	66.78	66.25	66.39
8000	60.84	64.12	65.36	66.1	66.56	67.46	68.51	68.82	68.74	68.39	67.93	67.92
10000	61.82	63.23	64.21	65.89	67.46	67.92	67.89	67.96	68.02	67.63	67.23	66.43
OASPL	69.21	75.28	76.81	77.86	78.32	78.76	79.58	80.06	80.48	80.64	80.8	81.16

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	42.93
200	64.22	63.94	63.63	63.35	63.15	63.06	63.13	63.42	0	0	0	105.19
250	71.43	71.28	71.18	71.27	71.67	72.18	72.3	71.46	69.51	66.16	63.03	113.14
320	71.09	71.38	72.04	72.4	71.96	71.82	71.59	70.43	66.48	65	59.06	112.85
400	70.86	70.21	70.48	71.04	70.5	69.69	68.94	66.33	56.91	55.21	54.65	111.81
500	72.09	72.5	72.66	72.57	72.5	72.18	71.37	70	66.22	66.62	62.35	113.28
630	72.33	72.5	72.8	72.88	71.69	70.41	68.97	67.59	66.27	65	63.58	112.94
800	70.54	70.6	70.55	69.89	68.4	67.3	66.59	65.52	64.32	63.55	63.17	111.33
1000	69.24	69.25	68.98	68.47	67.6	66.37	65.1	63.84	62.2	61.72	61.94	109.97
1300	66.65	66.68	66.75	66.37	65.13	63.73	62.67	61.89	60.17	60.04	60.35	108.37
1600	66.88	66.92	66.8	66.33	65.83	64.2	62.57	60.82	59.85	59.61	59.69	108.05
2000	64.54	63.95	63.95	63.94	63.04	61.67	60.48	59	57.54	57.47	57.61	105.83
2500	63.83	63.19	62.6	62.28	61.86	60.72	59.31	58.06	58.64	58.43	58.06	106.32
3200	64.12	63.31	62.73	62.41	61.58	60.4	59.17	58.31	56.92	56.53	58.04	105.89
4000	64.01	62.96	62.37	62.07	61.26	60.11	58.94	57.7	56.57	55.8	55.53	105.94
5000	64.59	63.59	62.89	62.3	61.14	59.98	58.9	57.7	56.53	55.75	55.62	106.65
6300	66.02	64.99	64	63.14	61.99	60.75	59.63	58.72	57.8	57.05	57.11	107.88
8000	67.24	66.08	65.1	64.31	63.2	62.04	61.01	60.04	59.07	58.23	58.41	109.35
10000	65.83	65.18	64.58	64.02	63.16	61.77	60.38	59.49	58.56	57.54	57.49	108.81
OASPL	81.16	81.03	81.05	80.97	80.41	79.79	79.14	77.92	75.52	74.38	72.21	122.51

NASA Lewis Allison AST Jet Noise Test 1996

rdg 277
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 564.05
m01 0.29747
pamb 14.2355
tamb 501.031
rhumid 89.76
windel 0
nprc 1.174
nprb 1.215
ptc 16.7125
ptb 17.2961
wactc 1.743
wactb 9.151
ttc 1101.08
ttb 497.326
ptmix 17.2027
ttmix 583.925
mixpnd 0.472072
grsvixp 6144.76
badchan (04.26)
bkgnd 265
escdate 25 Nov 96
esctime 17:28:43
DADSdate 25 Nov 96
DADStime 17:28:43
btchdate 25 Nov 96
btchtime 17:28:43
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:00:48 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1562.91	1596.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	40.86	40.59	0	0	0	0	0	0	0	0	40.76	38.85	38.91	0	0	0	0	0	98.61
160	0	0	0	40.19	44.7	47.2	48.93	42.28	43.35	43.85	43.9	43.25	44.47	46.72	45.8	46.95	46.68	47.86	37.95	37.01	0	0	0	108.66
200	41.25	46.24	47.98	49.04	49.27	48.24	48.34	49.27	50.58	51.44	51.97	52.01	51.56	51.17	51.08	50.37	49.19	47.76	48.94	44.83	41.3	37.94	30.1	113.74
250	0	40	41.35	42.58	44.21	44.87	47.28	48.68	48.46	47.88	47.7	47.78	47.09	46.8	47.07	47.53	48.02	44.48	46.31	43.57	37.92	34.14	25.74	110.38
320	33.06	41.07	44.55	46.37	46.44	47.12	47.67	48.61	49.34	49.26	49.26	49.65	49.57	49.72	49.54	48.71	48.12	46.76	42.95	38.98	27.65	23.69	20	111.65
400	33.34	41.87	44.01	45.39	45.17	46.77	46.82	47.99	48.91	49.91	50.32	50.19	50.5	49.87	49.26	48.92	47.1	44.7	44.77	42.09	38.45	34.39	26.81	111.76
500	31.82	41.27	44	44.76	44.33	44.93	46.09	47.43	48.42	48.88	49.1	49.24	49.07	48.59	47.99	46.21	43.42	41.01	41.91	38.91	35.75	31.89	27.03	110.31
630	32.65	39.54	41.79	41.5	42.54	43.01	44.12	46.63	46.64	46.67	46.49	46.62	46.22	45.83	44.94	43.62	41.83	39.51	38.98	36.08	32.59	28.98	24.26	107.99
800	30.52	37.74	39.18	40	40.49	41.98	43.42	45.12	45.35	45.41	45.7	45.24	44.79	43.86	42.56	40.87	38.45	35.82	36.67	33.49	29.39	25.88	21.64	106.31
1000	25.41	35.65	36.88	39.03	38.41	40.6	41.8	44.22	44.01	43.37	42.96	42.38	41.58	41.39	41.04	39.83	38.42	35.59	33.19	30.64	26.3	22.69	17.94	104.44
1300	20.85	33.82	34.48	35.86	36.95	37.97	39.02	42.55	42.94	42.82	42.61	42.4	41.61	40.39	39.16	37.79	35.5	32.54	32.24	28.47	24.83	20.82	14.83	103.11
1600	19.22	31.38	32.88	34.73	36.08	36.65	37.84	39.8	40	39.77	39.49	39.44	38.59	37.29	35.95	34.46	32.6	30.04	29.49	25.53	21.18	18.31	4.33	100.43
2000	18.28	30.82	32.09	33.76	35.12	35.99	37.65	38.36	38.76	38.65	38.32	38.13	37.09	35.84	34.4	33.27	30.94	28.01	26.73	23.12	18.25	8.71	0	99.23
2500	18.78	28.17	29.89	31.75	32.96	34.22	35.64	38.07	38.29	37.71	37.02	36.8	35.8	34.28	32.51	30.85	28.68	25.72	24.85	21.24	10.9	0	0	97.86
3200	10.79	24.52	26.7	28.92	30.18	31.68	33.23	35.75	36.24	35.88	35.21	34.95	33.64	31.6	29.94	28.16	25.36	21.29	22.02	9.96	0	0	0	95.56
4000	0	13.18	19.99	23.36	25.19	28.91	28.81	33.43	33.3	33.01	32.45	31.79	30.53	28.77	28.75	24.1	18.37	0	9.4	0	0	0	0	92.2
5000	0	0	0	0	5.96	14.81	19.54	29.19	29.41	28.91	28.16	27.73	26.41	23.41	18.74	5.22	0	0	0	0	0	0	0	87.26
6300	0	0	0	0	0	0	0	20.58	21.07	20.1	17.53	14.73	3.14	0	0	0	0	0	0	0	0	0	0	77.13
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	43.57	50.73	52.82	54.15	54.74	55.55	56.51	57.15	57.75	58.04	58.2	58.19	57.97	57.71	57.26	56.8	55.49	54.28	52.6	49.95	45.4	41.73	34.78	120.08
PNL	47.71	56.92	58.87	60.58	61.32	62.19	63.5	64.07	64.48	64.64	64.63	64.47	64.18	63.48	62.7	61.92	60.38	58.25	55.68	52.18	48.73	41.32	32.44	62.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	278
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	813.89
m01	0.29684
pamb	14.2357
tamb	500.511
rhumid	91.01
winds1	0
nprc	1.391
nprb	1.439
ptc	19.8019
ptb	20.4852
wactc	2.787
wactb	13.211
ttc	1161.28
ttb	496.698
ptmix	20.3661
ttmix	612.474
mixpnd	0.670776
grsvbp	13020.6
badchan	(04,26)
bkgnd	265
escdate	25.Nov.96
esctime	17:36:27
DADSdate	25.Nov.96
DADStime	17:36:27
btchdate	25.Nov.96
btchtime	17:36:27

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:02:46 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	68.67	68.57	69.15	68.68	67.94	68.65	69.85	70.63	70.5	69.98	69.61	69.77	70.4	71.17	71.91	72.72	73.77	75.03	76.7	79.31	113.24
100	0	65.12	65.79	68.27	68.77	69.05	69.26	69.42	69.37	69.11	68.98	69.13	69.52	70.06	70.22	70.63	72.13	73.87	75.12	75.67	76.39	77.88	79.77	114.03
130	68.92	67.23	67.2	68.07	68.58	68.47	68.3	68.57	68.99	69.28	69.16	69.18	70.72	72.3	72.75	72.22	71.85	73.19	75.28	76.48	77.19	78.02	78.9	114.45
160	67.62	67.59	68.21	68.32	68.25	68.11	68.06	68.55	69.26	70.06	70.63	71.33	71.85	72.02	72.5	73.09	73.82	74.61	75.22	75.31	75.64	76.61	76.09	114.57
200	67.53	68.7	69.19	69.36	70.44	70.3	70.88	71.75	72.18	72.82	73.24	73.46	74.12	73.81	74.08	74.9	74.81	75.22	75.73	75.13	74.96	75.92	76.43	115.92
250	70.2	71.69	72.26	72.54	72.94	73.24	72.99	73.25	73.79	74.5	75.26	75.92	76.32	76.39	76.54	77.01	77.54	77.63	77.31	76.89	76.66	76.77	77.03	118.08
320	71.12	71.9	72.64	73.18	73.23	72.81	72.75	73.2	73.95	74.63	75.05	75.21	75.65	76.43	77.09	77.25	76.98	76.54	76.14	75.87	75.65	75.47	75.16	117.8
400	70.64	72.67	73.62	74.07	74.29	74.5	74.85	75.43	75.83	75.78	75.94	76.46	76.73	76.91	76.95	76.84	76.54	75.94	75.17	74.48	73.91	73.57	73.57	118.34
500	70.42	72.4	73.4	73.92	74.3	74.63	74.32	74.34	75.24	76.21	76.87	77.14	77.31	77.61	78	78.01	77.26	76.49	75.73	74.87	74.11	73.55	72.93	118.69
630	69.1	70.82	71.83	72.47	72.88	73.17	73.45	74.03	74.69	75.03	75.29	75.7	76.02	76.24	75.95	75.3	74.75	74.16	73.34	72.37	71.57	71.17	71.23	117.1
800	70.05	72.41	73.39	73.57	73.85	73.84	73.75	74.24	74.76	75.22	75.79	76.4	76.8	76.87	76.6	75.82	74.55	73.28	72.21	71.39	70.73	70.19	69.95	117.52
1000	69.13	71.35	72.15	72.27	72.72	73.2	73.69	74.26	74.78	75.17	75.46	75.79	76.35	76.23	75.78	75.2	74.2	73.02	71.82	70.7	69.79	69.21	69.02	117.02
1300	69.04	70.81	71.65	72.08	72.44	72.99	73.63	74.25	74.68	74.92	75.09	75.14	74.81	74.77	74.67	74.14	73.43	72.84	72.37	71.53	70.48	69.67	69.63	116.5
1600	68.92	70.38	70.93	71.16	71.37	71.68	72.07	72.65	73.1	73.19	73.28	73.64	73.71	73.85	73.61	72.91	72.02	70.77	69.43	68.31	67.45	66.95	67.13	115.06
2000	68.89	70.73	71.3	71.55	71.81	72.12	72.33	72.68	73.05	73.05	72.98	73.13	72.69	72.82	72.76	71.96	70.7	69.37	68.17	67.2	66.46	66.06	66.35	114.76
2500	68.69	70.47	71.26	71.8	72.01	72.07	72.09	72.38	72.8	72.67	72.17	72.04	72.11	72.09	71.59	70.67	69.53	68.4	67.37	66.46	65.61	64.97	65.11	114.27
3200	69.08	70.64	71.72	72.12	72.46	72.94	73.09	73.13	73.26	72.96	72.46	71.84	71.17	70.63	70.11	69.6	68.78	67.52	66.15	64.97	64.03	63.52	63.92	114.34
4000	69.39	71.06	72.24	72.97	73.16	73.41	73.41	72.88	73.03	72.7	72.28	71.68	70.74	69.72	68.98	68.45	67.69	66.6	65.31	64.03	62.93	62.35	62.87	114.31
5000	69.83	71.21	72.81	73.27	72.99	73.62	73.87	73.02	73.08	73.01	72.37	71.43	70.39	69.24	68.44	67.86	66.94	65.77	64.44	63.09	62	61.47	62	114.37
6300	70.85	71.38	73.12	73.81	73.49	74.14	74.34	73.75	73.88	73.9	72.73	71.46	70.45	69.35	68.39	67.55	66.46	65.28	64.02	62.78	61.75	61.26	61.85	114.81
8000	71.14	72.27	73.54	73.99	73.69	74.49	75.01	74.4	74.35	74.35	73.58	72.28	70.82	69.28	68.13	67.31	66.29	65.41	64.51	63.17	61.87	61.15	61.9	115.27
10000	70.99	70.81	71.67	72.48	73.03	73.97	73.56	72.89	72.79	72.82	72.23	69.94	68.34	67.15	66.41	65.89	65.14	64.2	63.02	61.56	60.06	59.06	59.61	113.86
OASPL	82.65	84.11	85.05	85.62	85.82	86.16	86.31	86.42	86.61	87.06	87.17	87.22	87.3	87.36	87.34	87.17	86.79	86.51	86.33	86.07	86.02	86.5	87.44	129.4

NASA Lewis Allison AST Jet Noise Test 1996

rdg	278
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	CONV
nozbid	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	813.89
m01	0.29684
pamb	14.2357
tamb	500.511
rhumid	91.01
winds1	0
nprc	1.391
nprb	1.439
ptc	19.8019
ptb	20.4852
wactc	2.787
wactb	13.211
ttc	1161.28
ttb	496.698
ptmix	20.3661
ttmix	612.474
mixpnd	0.670776
grsvisp	13020.6
badchan	{04,26}
bkgnd	265
escdate	25.Nov.96
esctime	17:36:27
DADSdate	25.Nov.96
DADStime	17:36:27
bchdate	25.Nov.96
btchtime	17:36:27

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date. Wed Aug 20 02:02:54 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	44.14	44.72	48.45	47.51	46.5	46.48	47.9	50.4	49.64	49.38	49.23
80	0	42.54	43.24	45.66	48.51	48.66	48.89	49.35	48	47.14	49.09	48.83
100	45.44	45.91	47.52	47	45.94	46.81	45.8	48.45	48.59	49.43	49.51	49.65
130	45.26	45.43	47.67	49.15	49.13	49.96	50.17	48.36	48.69	52.38	52.46	52.86
160	45.26	47.7	47.85	48.51	50.04	51.73	52.85	51.47	51.98	51.6	52.03	51.58
200	48.84	51.27	52.36	53.32	53.67	53.13	52.45	52.81	54.4	55.37	56.22	56.45
250	48.05	49.21	50.21	50.77	52.04	52.68	53.48	52.6	52.62	52.82	53.09	53.37
320	47.06	49.96	51.39	52.5	52.86	53.57	53.14	54.51	55.24	55.09	54.83	54.74
400	46.49	48.74	50.13	50.92	51.48	51.82	51.96	53.09	54.04	54.8	55.16	55.18
500	44.56	47.19	49.13	49.98	50.37	51.05	51.51	52.4	52.96	53.34	53.61	53.91
630	45.15	48.18	49.49	49.97	50.44	50.67	51.11	52.15	52.38	52.78	53.05	53.29
800	43.85	46.4	47.42	47.99	48.85	49.77	50.54	51.71	52.05	52.03	52.1	51.94
1000	42.53	45.1	46.38	46.96	47.2	47.92	48.51	51.19	51.68	51.73	51.4	50.98
1300	41.69	44.1	45.35	46.2	46.92	47.51	47.95	49.08	49.25	49.15	49.08	49.04
1600	40.58	43.2	44.49	45.29	46.01	46.49	46.69	48.37	48.86	48.43	48.1	47.85
2000	38.34	41.23	42.98	44.13	44.77	45.6	46.12	47.06	47.55	47.28	46.51	45.79
2500	36	38.95	40.86	42.31	43.24	44	44.32	46.39	46.54	45.95	45.15	44.12
3200	31.96	35	37.6	39.06	39.67	40.82	41.28	43.93	43.97	43.61	42.74	41.55
4000	25.48	28.89	31.87	33.83	34.27	35.46	36.11	40.58	40.63	40.38	39.32	37.64
5000	5.92	15.38	22	24.59	25.58	27.43	28.63	35.83	36.03	35.92	34.41	32.57
6300	0	0	0	0	0	0	0	28.3	28.2	27.86	26.31	23.36
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	58.81	59.21	60.48	61.42	61.96	62.45	62.72	63.4	63.98	64.32	64.52	64.53
PNL	64.61	67.41	68.9	69.86	70.53	71.17	71.57	72.04	72.37	72.36	72.03	71.56

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.74	47.52	48.22	48.39	47.36	50.47	50.66	47.68	46.49	45.49	48.71	113.32
80	48.32	51.25	50.81	48.96	47.24	49.57	50.44	49.56	48.31	47.61	46.64	113.8
100	48.79	48.32	50.64	50.8	50.47	49.71	50.34	50.31	49.45	48.29	46.57	114.25
130	52.65	52.48	51.22	51.99	50.63	50.47	50.74	49.06	47.68	46.48	45.2	115.28
160	52.54	53.21	52.7	53.63	53.14	53.65	52.1	48.78	46.73	45.59	44.33	118.23
200	56.38	56.12	56.06	55.29	54.42	52.43	50.84	50.29	49.19	47.05	44.2	118.48
250	53.83	53.98	53.69	53.32	51.99	50.94	49.31	49.01	47.03	44.59	41.38	118.51
320	54.57	54.83	54.91	54.55	53.27	51.36	49.29	47.17	44.98	42.28	39.14	117.47
400	55.13	54.46	53.41	51.96	50.03	48.34	48.27	47	44.17	41.32	37.2	116.43
500	53.69	53.18	52.4	50.94	49.1	46.85	44.53	43.75	40.92	37.88	34.35	115.18
630	53.42	53.16	52.17	50.86	48.5	46.1	43.34	41.95	38.17	35.6	31.11	114.82
800	51.54	50.78	50.01	48.68	47	45.03	42.89	40.33	37.03	33.34	28.49	113.47
1000	50.14	49.42	48.41	46.8	44.64	42.13	39.15	40.13	36.58	32.35	27.22	112.29
1300	48.49	47.92	46.92	45.24	42.83	39.95	36.91	35.89	32.35	28.13	22.72	110.58
1600	48.82	46.13	45.02	43.11	40.65	37.9	34.9	33.75	30.07	25.6	19.69	109.38
2000	44.99	43.95	42.29	40.5	38.3	35.35	31.91	31.52	27.4	22.2	3.39	107.85
2500	42.53	40.87	39.3	37.49	35.16	32.17	28.48	28	23.48	14.23	0	106.14
3200	39.99	37.98	35.95	33.9	31.42	28.1	23.59	24.14	15.45	0	0	103.32
4000	35.82	33.75	31.62	29.18	25.86	20.07	0	13.56	0	0	0	99.23
5000	30.52	28.01	24.74	19.9	6.86	0	0	0	0	0	0	93.74
6300	18.46	5.57	0	0	0	0	0	0	0	0	0	84.84
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	64.41	64.24	63.78	63.15	61.95	61.15	60.16	58.87	57.25	55.63	54.55	128.98
PNL	70.98	70.42	69.79	68.84	67.13	65.26	63.02	60.46	57.24	53.75	49.42	70.14

NASA Lewis Allison AST Jet Noise Test 1996

rdg	279
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	941.12
m01	0.29743
pamb	14.2307
tamb	500.731
rhumid	91.77
winds1	0
nprc	1.543
nprb	1.606
ptc	21.958
ptb	22.8545
wactc	3.086
wactb	15.399
ttc	1297.31
ttb	496.873
ptmix	22.7048
ttmix	630.336
mixpnd	0.764565
grsvixp	17396.6
badchan	(04,26)
bkgnd	265
escdate	25.Nov.96
esctime	17:42:14
DADSdate	25.Nov.96
DADStime	17:42:14
btchdate	25.Nov.96
btchtime	17:42:14

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:05:00 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.61	71.01	71.42	71.9	72.42	72.92	73.4	73.83	74.2	74.51	74.75	74.94	75.18	75.53	76.06	76.81	77.8	79.04	80.46	81.99	83.66	85.65	88.37	120.09
100	71.79	71.89	72.24	72.71	73.24	73.78	74.28	74.73	75.11	75.4	75.61	75.77	75.95	76.25	76.71	77.37	78.26	79.39	80.71	82.13	83.87	85.51	87.99	120.45
130	72.02	73.19	73.74	73.9	73.87	73.78	73.87	73.65	73.74	73.96	74.34	74.88	75.54	76.23	77	77.89	78.95	80.2	81.56	82.89	84.19	85.58	87.25	120.58
160	72.73	73.8	74.5	74.9	74.96	74.8	74.82	74.59	74.74	75.08	75.69	76.64	77.69	78.43	78.96	79.59	80.42	81.57	82.81	83.77	84.5	85.2	86.1	121.51
200	72.8	74.12	75.01	75.49	75.64	75.52	75.39	75.44	75.77	76.36	77.2	78.04	78.3	78.33	78.49	78.93	79.56	80.33	81.35	82.57	83.81	85.02	86.07	121.35
250	73.85	74.99	75.84	76	76.23	76.42	76.64	76.92	77.27	77.72	78.28	78.94	79.67	80.42	81.17	81.88	82.55	83.19	83.76	84.23	84.65	85.13	85.78	122.91
320	75.69	76.94	77.51	77.68	77.62	77.45	77.36	77.49	77.74	78	78.31	78.74	79.43	80.35	80.91	81.11	81.39	81.7	81.91	81.96	81.91	81.89	82	122.27
400	75.56	76.88	77.42	77.58	77.68	77.89	78.28	78.82	79.3	79.52	79.61	79.7	80.02	80.36	80.95	81.47	81.4	81.37	81.31	80.79	80.36	80.58	81.47	122.48
500	75.5	76.71	77.32	77.73	78.17	78.73	79.06	79.3	79.6	79.99	80.37	80.68	80.91	81.07	81.22	81.28	81.1	80.68	80.19	79.78	79.48	79.3	79.18	122.64
630	74.23	76.03	77.2	77.72	77.87	77.99	78.37	78.56	78.93	79.58	79.86	80.18	80.26	80.34	80.63	80.76	80.37	79.86	79.42	78.94	78.39	77.83	77.51	122.02
800	74.96	76.48	77.35	77.87	78.24	78.47	78.6	79.07	79.51	79.68	79.96	80.31	80.35	80.36	80.45	80.19	79.45	78.83	78.4	77.93	77.32	76.56	76.17	121.96
1000	74.83	76.1	76.89	77.57	77.95	78.06	78.27	78.62	79.04	79.37	79.9	79.83	80.09	80.31	80.22	79.77	79.01	78.29	77.6	76.78	75.97	75.4	75.25	121.58
1300	74.39	75.67	76.51	77.03	77.41	77.79	78.26	78.81	79.33	79.72	80.14	81.08	81.04	80.82	80.39	79.77	78.96	78.06	77.1	76.12	75.24	74.6	74.45	121.74
1600	73.96	75.05	75.78	76.33	76.75	77.08	77.39	77.8	78.27	78.84	79.36	79.7	80.53	80.55	79.79	78.76	77.87	76.65	75.7	74.84	74.11	73.64	73.52	120.89
2000	73.39	74.76	75.92	76.77	76.95	77.05	77.27	77.61	78.09	78.64	79.14	79.69	80.19	80.43	79.83	78.43	77	75.96	75.19	74.2	73.1	72.18	71.82	120.71
2500	73.05	74.28	75.4	76.4	76.79	76.94	77.1	77.25	77.54	77.95	78.48	79.2	79.58	79.49	78.96	77.9	76.33	74.93	73.81	72.79	71.79	70.97	70.94	120.12
3200	73.13	74.64	75.9	76.65	76.82	77.04	77.21	77.26	77.22	77.11	77.39	77.83	78.2	78.34	77.9	76.69	74.88	73.41	72.33	71.44	70.51	69.68	69.62	119.47
4000	73.01	74.32	75.9	77.02	77.13	77.36	77.52	76.95	76.77	76.52	76.41	76.59	76.47	75.99	75.36	74.53	73.36	72.1	70.96	70.05	69.25	68.54	68.5	118.72
5000	73.12	74.02	76.14	77.18	76.67	77.2	77.35	76.64	76.06	75.68	75.49	75.48	75.01	74.32	73.69	72.98	71.76	70.48	69.36	68.57	67.75	67	67.11	118.06
6300	73.44	74.22	76.41	77.44	76.68	76.88	77.8	76.81	76.23	75.51	74.93	75.29	74.96	74.01	72.97	71.88	70.62	69.4	68.37	67.57	66.81	66.24	66.48	117.97
8000	73.36	74.67	76.6	77.92	76.67	76.7	77.8	76.71	76.13	75.27	75.12	75.48	74.97	73.95	72.83	71.65	70.35	69.12	68.06	67.19	66.4	65.8	65.96	118.04
10000	72.59	73.19	74.77	76.42	75.68	75.81	75.78	74.6	74.25	73.28	72.89	72.95	72.74	72.03	71.09	70.18	69.18	67.77	66.28	65.09	64.07	63.28	63.37	116.3
OASPL	87.14	88.35	89.39	90.05	90.1	90.29	90.56	90.62	90.83	91.05	91.37	91.79	92.08	92.23	92.25	92.17	92.03	92.12	92.43	92.84	93.4	94.26	95.64	134.28

NASA Lewis Allison AST Jet Noise Test 1996

rdg	279
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	941.12
m01	0.29743
pamb	14.2307
tamb	500.731
rhumid	91.77
winds1	0
nprc	1.543
nprb	1.606
ptc	21.958
ptb	22.6545
wactc	3.086
wactb	15.389
ttc	1297.31
ttb	496.673
ptmix	22.7048
ttmix	630.336
mixpnd	0.764565
grawisp	17396.6
badchan	[04.26]
bkgnd	265
eecdate	25.Nov.96
eectime	17:42:14
DADSdate	25.Nov.96
DADStime	17:42:14
btchdate	25.Nov.96
btchtime	17:42:14

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 02:05:08 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.3	49.74	50.46	53.16	52.55	52.42	52.51	53.78	55.79	55.05	54.48	53.95	55.79	54.51	53.53	53.1	53.03	55.95	55.74	55.86	55.07	54.4	57.57	119.92
80	48.43	50.93	51.18	50.55	53.21	53.28	54.11	54.86	53.6	53.07	54.91	54.34	53.12	54.84	54.81	55	54.64	56.65	56.2	56	55.57	55.17	54.81	119.96
100	50.88	51.74	53.61	52.98	52.27	53.87	52.85	53.54	53.31	54.21	53.57	55.18	54.84	54.89	57.12	56.92	56.54	56.43	56.77	56.72	56.41	55.83	54.93	120.64
130	50.88	52.47	53.95	55.08	54.67	55.29	54.78	54.41	53.74	55.53	55.71	57.17	56.86	57.2	56.48	57.14	56.54	55.96	57.87	57.52	56.51	54.99	53.11	121.2
160	50.13	52.36	52.94	53.74	54.83	55.63	56.57	55.17	55.7	55.5	56.49	56.37	57.06	58.11	57.95	58.02	58.84	59.25	58.36	56.18	55.65	54.7	53.9	121.65
200	52.38	54.78	55.69	56.64	57.14	57.19	56.88	56.49	57.46	56.13	56.92	58.84	59.24	59.56	58.65	58.92	58.49	57.45	58.63	57.65	56.84	55.1	52.63	122.78
250	52.56	54.1	54.95	55.14	56.02	56.49	57.23	56.88	56.66	56.46	56.39	57.06	57.51	58.02	58.29	58.29	57.07	56.5	56.58	55.09	53.43	51.22	48.4	121.2
320	52.1	54.44	55.56	56.39	56.57	57.29	57.49	57.9	58.64	58.73	58.53	58.17	58.07	58.34	58.36	58	57.17	55.53	55.48	53.47	51.42	49.22	46.74	121.48
400	51.7	53.25	54.56	55.15	55.86	56.42	56.88	58.03	58.36	58.74	58.86	58.9	58.8	57.92	57.27	56.88	55.56	54.1	53.73	51.81	49.45	46.88	43.33	120.84
500	49.89	52.2	53.76	54.75	55.16	55.95	56.39	56.91	57.13	57.64	58.02	58.18	57.78	57.17	56.79	55.77	54.12	52.34	52.39	50.33	47.87	44.6	40.65	119.88
630	49.87	52.5	53.79	54.84	55.4	55.54	55.82	56.97	57.36	57.28	57.03	57.04	56.82	56.58	55.78	54.48	52.97	51.23	50.61	48.43	45.84	41.97	37.32	119.19
800	48.88	50.66	52.02	53.08	53.74	54.36	55.1	56.07	56.38	56.56	56.98	56.85	56.76	56.3	55.33	54.02	52.33	50.17	49.08	46.37	43.18	39.51	34.73	118.41
1000	48.15	49.94	51.34	52.28	53.01	53.4	53.82	55.77	56.2	56.35	56.45	56.88	56.49	55.78	54.47	52.62	50.34	48.08	47.61	44.76	41.37	37.3	32.04	117.74
1300	46.88	48.58	50.14	51.36	52.11	52.53	52.91	54.2	54.57	55.1	55.48	55.62	55.82	55.26	53.65	51.35	48.87	46.48	45.47	42.49	38.99	34.78	29.09	116.62
1600	44.96	47.09	48.92	50.28	50.99	51.41	51.71	53.31	53.73	54	54.2	54.49	54.41	53.67	52.29	50.16	47.28	44.33	43.96	40.7	36.7	31.67	25.13	115.37
2000	42.84	45.12	47.05	48.63	49.42	49.9	50.35	51.96	52.19	52.31	52.43	52.51	52.3	51.68	50.25	47.8	44.6	41.36	41.32	37.65	33.86	28.28	21.27	113.52
2500	40.08	42.84	45.07	46.69	47.52	48.01	48.41	50.52	50.45	50.13	49.89	49.63	49.05	48.01	46.3	43.94	41.05	37.83	38.14	34.56	29.84	24.07	4.25	110.98
3200	35.57	37.99	40.89	42.93	43.44	44.45	44.78	47.99	47.72	47.23	46.55	46.12	45.15	43.49	41.65	39.44	36.37	32.8	34.28	30.19	25.2	15.41	0	107.45
4000	28.71	31.56	35.18	37.31	37.61	38.55	39.49	44.18	43.55	42.95	42.33	41.55	40.2	38.46	36.34	33.67	30.25	26.3	28.8	24.1	13.88	0	0	102.7
5000	15.39	20.57	25.84	28.86	28.99	28.99	31.5	36.96	38.43	37.46	36.47	38.28	34.92	32.61	29.82	26.3	20.9	-2.56	19.82	0	0	0	0	96.69
6300	0	0	0	0	0	8.75	12.65	30.8	30.1	28.91	27.88	27.1	24.83	21.05	13.88	0	0	0	0	0	0	0	0	87.23
8000	0	0	0	0	0	0	0	6.02	2.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.88
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	62.07	63.99	65.18	66.01	66.52	67.02	67.32	67.9	68.24	68.46	68.68	68.82	68.83	68.75	68.43	68.01	67.13	66.73	66.62	65.81	64.79	63.52	62.96	132.08
PNL	69.72	71.87	73.54	74.74	75.37	75.88	76.24	76.62	76.83	76.92	77.01	77.07	76.9	76.34	75.3	73.82	72.32	70.67	69.17	67.29	65.3	62.52	59.18	75.43

NASA Lewis Allison AST Jet Noise Test 1996

rdg 280
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld CONV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 989.56
m01 0.29598
pamb 14.2322
tamb 500.848
rhumid 91.27
winds1 0
nprc 1.739
nprb 1.823
ptc 24.7498
ptb 25.9453
wactc 3.385
wactb 18.196
ttc 1390.58
ttb 497.168
ptmix 25.7578
ttmix 837.301
mixpnd 0.799513
grswxp 21355.7
badchan (04,13,14,26)
bkgnd 265
escdate 25.Nov.96
esctime 17:48:39
DADSdate 25.Nov.96
DADStime 17:48:39
bkchdate 25.Nov.96
bkchtime 17:48:39
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:07:11 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.62	75.67	76.67	77.03	77.04	76.87	76.66	76.52	76.5	76.66	77.02	77.58
100	75.97	77.42	78.11	78.36	78.39	78.32	78.27	78.31	78.47	78.81	79.34	80.03
130	76.04	77.25	77.84	78.07	78.1	78.06	78.03	78.06	78.19	78.46	78.88	79.46
160	77.56	79.03	78.82	79.71	79.56	79.35	79.2	79.18	79.37	79.61	80.49	81.28
200	77.65	78.75	79.32	79.62	79.81	79.98	80.18	80.47	80.85	81.36	82.03	82.66
250	77.95	78.76	79.31	79.71	80.02	80.33	80.66	81.06	81.55	82.13	82.81	83.57
320	78.96	80.06	80.56	80.73	80.74	80.72	80.76	80.93	81.27	81.62	82.56	83.42
400	78.98	79.43	79.89	80.32	80.74	81.15	81.55	81.94	82.31	82.66	83.06	83.59
500	79.78	80.62	81	81.17	81.28	81.42	81.62	81.9	82.27	82.72	83.29	83.95
630	79.14	80.25	80.67	80.62	80.95	81.16	81.51	81.93	82.48	83.08	83.76	84.42
800	79.47	80.29	80.62	80.83	81.1	81.54	81.87	82.19	82.77	83.41	83.95	84.37
1000	80.13	80.9	81.12	81.42	81.47	81.58	81.95	82.46	83	83.58	84.14	84.67
1300	79.71	80.75	80.96	81.21	81.57	82.02	82.67	83.35	83.89	84.45	85.05	85.57
1600	80.14	81.39	81.73	81.75	81.81	82.08	82.51	83.26	84.23	85.02	85.72	86.3
2000	81.02	82.44	82.59	82.46	82.44	82.75	83.27	83.96	85.07	86.09	87.22	88.15
2500	82.4	84.22	84.16	83.66	83.44	83.69	84.48	85.45	86.77	87.85	88.76	89.42
3200	84	85.81	85.73	85.11	84.73	84.86	85.52	86.64	88	89.1	90.07	90.7
4000	84.23	86.28	86.41	86.01	85.59	85.74	86.65	87.23	88.1	89.14	90.18	90.86
5000	83.86	86.31	86.64	86.19	85.46	85.62	86.59	86.96	87.53	88.43	89.36	89.93
6300	83.45	85.67	86.55	86.47	85.66	85.45	86.55	86.94	87.06	87.33	87.83	88.19
8000	82.37	84.82	86.43	86.81	85.81	85.16	86.75	86.79	86.66	86.79	87.05	87.13
10000	80.57	81.66	83.83	85.04	84.77	83.57	84.54	84.66	84.26	83.8	83.68	83.62
OASPL	94.1	95.77	96.28	96.31	96.01	95.99	96.7	97.17	97.75	98.43	99.17	99.75

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.33	79.25	80.33	81.55	82.9	84.4	86.04	87.96	89.87	92.21	95.22	125.38
100	80.87	81.84	82.92	84.11	85.39	86.78	88.3	89.97	91.71	93.55	95.52	127.16
130	80.21	81.12	82.18	83.4	84.76	86.27	87.95	89.8	91.75	93.8	96.03	127.02
160	82.07	82.77	83.33	83.87	84.61	85.69	87.24	89.28	91.45	93.44	94.79	127.09
200	83.16	83.65	84.87	85.97	86.7	87.35	88.24	89.27	90.26	91.17	91.86	127.23
250	84.36	85.17	85.99	86.78	87.54	88.27	88.97	89.66	90.29	90.77	90.96	127.79
320	84.32	85.2	86.03	86.77	87.41	87.97	88.47	88.94	89.24	89.26	88.74	127.47
400	84.32	85.29	86.55	87.3	86.86	86.85	87.38	87.79	87.78	87.41	86.72	127.18
500	84.69	85.5	86.27	86.8	87	86.96	86.77	86.5	86.06	85.61	85.26	127.03
630	84.99	85.42	85.69	85.67	85.44	85.39	85.37	85.12	84.53	83.81	83.3	126.47
800	84.63	84.8	85.06	85.07	84.45	84.04	83.81	83.36	82.79	82.36	81.96	126.07
1000	85.06	85.22	85.26	84.87	84.17	83.35	82.65	82.03	81.31	80.55	80.36	126.11
1300	85.85	85.87	85.53	84.67	83.4	82.46	81.87	81.18	80.52	80.04	80.02	126.44
1600	86.62	86.65	85.89	84.42	82.97	81.78	80.86	80.19	79.58	79.04	78.98	126.75
2000	88.5	88.17	87.12	85.32	82.99	81.07	79.81	79.04	78.42	77.94	78.1	127.84
2500	89.72	89.54	88.1	85.67	83.24	81.2	79.64	78.52	77.73	77.25	77.43	129.08
3200	90.82	90.33	89.06	86.93	84.26	81.97	80.21	78.98	77.87	77.23	77.4	130.24
4000	90.88	90.13	88.72	86.75	84.46	82.27	80.38	78.89	77.79	77.19	77.44	130.46
5000	89.76	88.76	87.38	85.56	83.16	81	79.39	78.29	77.45	76.83	76.96	129.77
6300	88.03	87.22	85.86	84.1	81.97	80.02	78.51	77.47	76.66	76.13	76.64	128.89
8000	86.78	85.88	84.63	82.98	80.89	79.11	77.89	77.21	76.56	75.96	76.22	128.34
10000	83.3	82.54	81.43	80.01	78.3	76.61	75.45	75.03	74.47	73.58	73.52	125.78
OASPL	99.95	99.77	99.29	98.89	98.14	98.09	98.52	99.27	100.24	101.42	102.86	141.18

NASA Lewis Allison AST Jet Noise Test 1996

rdg	280
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	CONV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	989.56
m01	0.29598
pamb	14.2322
tamb	500.848
rhumid	91.27
winds1	0
nprc	1.739
nprb	1.823
ptc	24.7498
ptb	25.9453
wactc	3.365
wactb	18.196
ttc	1390.58
ttb	497.168
ptmix	25.7579
ttmix	637.301
mixpnd	0.799513
gravixp	21355.7
badchan	(04,13,14,26)
bkgnd	265
escdate	25.Nov.96
esctime	17:48:39
DADSdate	25 Nov.96
DADStime	17:48:38
btchdate	25.Nov.96
btchtime	17:48:39

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:07:18 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	52.98	54.15	54.81	57.73	56.83	56.31	58	58.47	58.42	57.88	57.76	57.88
80	52.46	56.31	56.83	55.94	57.8	57.68	58.47	58.23	57.1	58.65	59	58.86
100	55.01	56.2	58.34	57.86	57.09	58.27	57.33	57.85	57.79	58.15	57.76	59.9
130	55.21	56.81	58.02	59.53	59.27	60.1	59.7	59	58.55	60.14	60.08	61.2
160	55.32	57.03	57.32	57.88	58.5	59.45	60.58	60.19	60.45	60.32	61.21	61.24
200	56.17	58.3	59.18	60.08	60.49	60.57	60.33	60.63	61.86	62.54	63.26	63.47
250	56.09	57.08	57.68	57.97	59.05	59.81	60.5	60.32	60.28	60.5	60.82	61.38
320	55.88	57.43	58.48	59.46	59.73	60.13	60.28	61.03	61.64	61.66	62.08	62.47
400	55.83	57.02	57.99	58.4	58.8	59.2	58.75	60.85	60.93	61.27	61.89	62.24
500	54.65	56.43	57.35	57.93	58.51	59.27	59.71	60.27	60.72	61.29	61.71	62.1
630	54.44	56.69	57.49	58.17	58.5	58.78	59.34	60.09	60.54	61.04	61.35	61.62
800	54.1	55.26	56.16	57.01	57.8	58.49	59.43	59.9	60.45	60.84	61.15	61.2
1000	53.54	55.39	56.37	57.03	57.68	58.38	58.9	60.3	60.93	61.52	62.03	62.33
1300	52.95	55.22	56.25	56.85	57.23	57.89	58.75	59.86	60.62	61.39	62.19	62.76
1600	52.98	55.56	56.57	56.83	57.35	58.01	58.97	59.63	60.89	62.08	63.05	63.65
2000	52.54	55.37	56.14	56.49	56.81	57.44	58.61	60.14	61.55	62.58	63.39	63.8
2500	50.82	54.1	55.21	55.29	55.55	56.31	57.43	59.89	61.27	62.25	63	63.34
3200	46.77	50.33	51.86	52.19	52.21	52.83	54.03	58.25	59.08	59.96	60.85	60.67
4000	39.56	43.72	45.6	46.36	46.51	47.14	48.46	54.55	55.01	55.56	55.82	55.58
5000	28.7	33.4	36.16	37.93	38.31	38.39	40.5	49.11	49.26	49.24	49.16	48.55
6300	0	12.43	20.43	23.37	23.88	24.41	26.65	40.79	40.77	40.37	39.79	38.88
8000	0	0	0	0	0	0	0	28.72	25.8	24.35	22.52	19.71
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	66.78	68.66	69.61	70.23	70.61	71.15	71.62	72.37	72.99	73.58	74.18	74.55
PNL	76.86	79.34	80.3	80.8	81.17	81.78	82.66	83.7	84.64	85.4	86.03	86.35

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	60.63	60.15	59.87	60.17	60.57	61.1	63.84	61.83	61.39	61.06	65.1	125.89
80	58.17	60.25	60.52	60.95	60.79	62.86	63.18	63.9	63.58	63.05	61.98	126.41
100	58.91	59.9	61.7	61.68	61.35	61.04	62.39	63.65	64	64.1	63.8	126.8
130	61.16	62.11	61.78	63.1	62.59	62.32	63.23	63.04	63.48	63.23	61.77	127.03
160	62.07	62.82	62.96	64.09	63.94	64.51	63.89	62.92	62.09	60.84	59.75	127.08
200	64.1	64.62	64.87	64.56	64.48	63.66	63.18	63.12	62.75	61	58	127.77
250	61.85	62.56	63.38	63.98	62.75	62.14	61.61	62.1	60.89	58.88	55.18	126.2
320	62.86	63.55	63.83	63.52	62.94	61.7	60.23	60.51	58.63	55.85	52.03	126.08
400	62.69	62.62	62.35	61.84	60.71	59.7	58.37	58.63	56.15	53.38	49.58	124.9
500	62.05	61.67	61.35	60.58	59.25	57.74	56.12	56.51	53.88	50.51	46.39	124.02
630	61.56	61.31	60.86	60	58.29	56.36	54.08	53.89	51.23	47.69	43.09	123.44
800	61.13	61.08	60.33	58.7	56.87	54.55	52.49	51.88	48.56	44.7	39.82	122.77
1000	62.17	61.69	60.38	58.2	55.62	53.19	50.56	49.76	46.62	42.69	37.59	123.01
1300	62.86	62.01	60.56	58.1	54.66	51.46	48.59	47.83	44.54	40.27	34.6	122.97
1600	63.49	62.74	60.72	57.52	54.03	50.51	47.04	45.59	41.97	37.41	31.4	123.35
2000	63.62	62.66	60.55	57.33	53.36	49.51	45.83	43.57	39.57	34.62	27.91	123.41
2500	62.99	61.68	59.29	55.92	52.03	47.83	43.59	41.87	37.29	31.8	23.91	122.69
3200	59.67	57.7	55.14	51.89	47.75	43.28	38.79	39	33.71	27.18	13.77	119.76
4000	54.6	52.55	49.7	46.08	41.65	36.85	31.74	33.99	28.15	18.29	0	114.88
5000	47.23	45.08	42.09	38.15	33.28	27.81	20.5	25.98	13.6	0	0	108.11
6300	37	34.11	30.32	25.37	17.23	0	0	0	0	0	0	98.58
8000	14.85	0	0	0	0	0	0	0	0	0	0	82.14
10000	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	74.67	74.56	74.14	73.68	72.82	72.39	72.35	72.27	71.71	70.8	70.39	137.88
PNL	86.13	85.29	83.81	81.69	78.89	77.19	75.63	74.13	72.39	69.84	66.41	83.31

50%L, 12UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	213
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	583.64
m01	0.04935
pamb	14.2925
tamb	500.123
rhumid	58.23
winds1	0
nprc	1.168
nprb	1.212
ptc	16.6938
ptb	17.3225
wactc	1.845
wactb	9.308
ttc	1107.76
ttb	502.158
ptmix	17.2165
ttmix	602.34
mixpnd	0.485043
grsvixp	6509.34
badchan	(26)
bkgnd	207
escdate	21.Nov.96
esctime	18:18:53
DADSdate	21.Nov.96
DADStime	18:18:53
blchdate	21.Nov.96
blchtime	18:18:53

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:27:24 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	58.6	60.23	61.71	63.07	64.29	65.41	66.41	67.32	68.14	68.89	69.57	70.2
100	62.16	63.85	65.11	66.01	66.62	67.03	67.31	67.54	67.8	68.16	68.7	69.48
130	62.81	63.92	64.78	65.41	65.89	66.25	66.55	66.84	67.19	67.63	68.22	69
160	63.93	65.33	66.39	67.18	67.78	68.24	68.63	69.01	69.42	69.91	70.53	71.28
200	65.72	66.9	67.71	68.32	68.87	69.44	70.05	70.67	71.29	71.9	72.48	73.04
250	66.71	67.91	68.88	69.71	70.43	71.1	71.75	72.38	73.03	73.73	74.48	75.31
320	67.31	68.74	69.91	70.83	71.54	72.07	72.48	72.84	73.23	73.71	74.35	75.18
400	66.11	67.76	69.13	70.33	71.4	72.38	73.23	73.88	74.35	74.76	75.31	75.99
500	66.25	68.06	69.6	70.89	71.87	72.48	72.97	73.54	74.25	75.09	76.05	77.08
630	65.93	68.17	69.92	71.21	72.14	72.8	73.31	73.81	74.41	75.18	76.06	77.01
800	66.67	69.15	70.62	71.54	72.09	72.67	73.27	73.87	74.5	75.24	76.11	77.04
1000	65.78	68.21	69.97	71.09	71.44	72.07	72.75	73.31	73.98	75	75.78	76.55
1300	65.05	67.48	68.95	69.88	70.56	71.21	71.74	72.51	73.38	74.07	74.8	75.4
1600	64.47	66.7	68.12	69.07	69.68	70.32	70.98	71.45	71.79	72.35	73.2	74.32
2000	63.61	65.93	66.92	67.59	68.19	69.03	69.71	70.13	70.68	71.56	72.45	73.31
2500	62.24	64.69	65.89	66.61	67.05	67.71	68.35	68.83	69.44	70.32	71.04	71.82
3200	61.13	63.72	65.21	65.94	66.39	67.02	67.86	68.25	68.63	69.42	70.08	70.82
4000	59.87	62.75	64.25	65.05	65.34	66.07	67.11	67.38	67.8	68.59	69.51	69.99
5000	58.95	62.13	63.52	64.12	64.13	65.23	66.44	66.69	67.05	68.08	69.06	69.77
6300	57.56	61.32	62.87	63.6	63.97	65.23	66.38	66.82	67.34	68.28	69.13	69.99
8000	56.81	61.18	63.07	63.84	64.29	65.71	67.06	67.22	67.74	68.79	68.99	71.22
10000	55.69	59.58	61.5	63.04	63.96	65.24	65.84	65.95	66.37	67.2	68.57	69.47
OASPL	77.47	79.46	80.82	81.79	82.46	83.15	83.79	84.31	84.87	85.59	86.38	87.21

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	70.78	71.33	71.85	72.37	72.88	73.39	73.93	74.5	75.11	75.77	0	113.11
100	70.44	71.52	72.66	73.79	74.81	75.67	76.28	76.59	76.57	76.19	0	114.25
130	69.93	70.99	72.14	73.34	74.56	75.73	76.64	77.07	76.6	75.62	0	114.07
160	72.16	73.09	74.03	74.94	75.75	76.43	76.89	77.05	76.84	76.19	0	115.27
200	73.59	74.18	74.75	75.32	75.79	76.06	75.94	75.22	73.83	71.86	0	115.53
250	76.14	76.9	77.52	77.93	78.05	77.85	77.32	76.47	75.17	72.78	0	117.56
320	76.08	76.95	77.63	78.01	77.94	77.39	76.47	75.3	73.96	72.58	0	117.55
400	76.66	77.07	77.17	77.03	76.68	75.84	74.32	72.95	71.95	70.81	0	117.35
500	76.05	76.76	78.11	76.87	77.99	76.68	75.27	73.76	72.14	70.44	0	118.33
630	77.78	78.28	78.29	77.69	76.48	75	73.65	72.3	71.3	70.52	0	117.87
800	77.7	78.06	78.2	77.33	75.87	74.37	73.07	71.62	69.96	68.78	0	117.75
1000	77.13	77.42	77.51	76.44	74.76	73.26	71.79	70.25	68.87	67.44	0	117.1
1300	75.62	76.24	76.69	75.33	73.65	72.33	70.97	69.45	67.69	66.29	0	116.08
1600	75.01	75.76	76.02	74.49	72.52	71.33	69.67	68.16	66.75	65.04	0	115.1
2000	73.68	73.99	74	72.89	71.57	70.29	68.29	66.61	65.23	63.43	0	113.78
2500	71.99	72.27	72.44	71.29	69.97	68.41	66.31	64.87	63.46	61.97	0	112.3
3200	70.93	71.22	71.53	69.99	68.57	67.02	64.73	63	61.47	59.62	0	111.34
4000	69.7	68.85	70.17	68.4	67.07	65.29	62.75	60.94	59.18	56.95	0	110.23
5000	68.23	68.94	69.08	67.17	65.77	64.02	61.53	59.34	57.2	55.28	0	109.5
6300	68.59	68.9	68.91	66.92	65.2	63.15	60.54	58.05	55.49	53.76	0	109.48
8000	70.15	69.07	69.18	67.34	65.7	63.45	60.45	57.44	54.74	53.06	0	110
10000	68.92	67.73	68.67	66.98	64.46	61.76	58.56	56	53.06	50.34	0	108.79
OASPL	87.77	88.28	88.62	88.26	87.73	87.21	86.64	86.03	85.3	84.33	0	128.8

NASA Lewis Allison AST Jet Noise Test 1996

rdg	213
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.228
amixc	35.02
amixb	78.39
scale	4
vid	583.64
m01	0.04935
pamb	14.2925
tamb	500.123
rhumid	58.23
windel	0
nprc	1.168
nprb	1.212
ptc	16.6936
ptb	17.3225
wactc	1.845
wactb	9.308
ttc	1107.76
ttb	502.158
ptmix	17.2185
ttmix	602.34
mixpnd	0.485043
grsvtp	6509.34
badchan	(26)
bkgnd	207
escdate	21.Nov.96
esctime	18:18:53
DADSdate	21.Nov.96
DADStime	18:18:53
btchdate	21.Nov.96
btchtime	18:18:53

**Scenario. Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 00:27:30 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	36.82	38.93	40.81	42.48	43.95	45.23	46.34	47.28	48.07	48.72	49.23	49.61	49.88	50.03	50.07	49.99	49.8	49.49	49.03	48.39	47.53	46.32	0	113.05
100	40.34	42.52	44.18	45.39	46.25	46.82	47.21	47.47	47.69	47.95	48.33	48.86	49.5	50.19	50.84	51.37	51.7	51.71	51.32	50.42	48.9	46.65	0	114.14
130	40.93	42.54	43.79	44.75	45.47	46	46.4	46.73	47.04	47.38	47.81	48.34	48.95	49.61	50.27	50.87	51.39	51.7	51.8	50.82	49.04	45.95	0	113.89
160	41.98	43.87	45.33	46.45	47.29	47.92	48.42	48.83	49.2	49.6	50.04	50.58	51.11	51.63	52.08	52.39	52.49	52.31	51.74	50.86	48.91	46.31	0	115
200	43.64	45.32	46.55	47.48	48.28	49.03	49.74	50.4	50.98	51.49	51.89	52.2	52.42	52.58	52.67	52.63	52.37	51.77	50.8	48.81	45.65	41.68	0	115.15
250	44.45	46.16	47.55	48.71	49.69	50.53	51.28	51.95	52.57	53.18	53.74	54.31	54.8	55.15	55.25	55.04	54.41	53.32	51.71	49.56	46.63	42.14	0	116.99
320	44.8	46.77	48.37	49.84	50.81	51.32	51.84	52.23	52.58	52.95	53.41	53.98	54.54	54.97	55.13	54.87	54.03	52.55	50.51	47.97	44.92	41.32	0	116.75
400	43.26	45.45	47.27	48.81	50.15	51.32	52.28	52.97	53.4	53.72	54.06	54.47	54.78	54.75	54.3	53.5	52.34	50.54	47.84	45.03	42.23	38.7	0	116.23
500	42.95	45.34	47.34	49	50.25	51.06	51.86	52.28	52.94	53.68	54.43	55.18	55.77	56.04	55.8	54.87	53.15	50.82	48.15	45.08	41.5	37.19	0	116.77
630	42.12	44.97	47.21	48.9	50.13	50.99	51.82	52.18	52.72	53.35	54.04	54.7	55.08	55.1	54.49	53.14	51.03	48.46	45.78	42.78	39.8	35.92	0	115.88
800	42.51	45.43	47.43	48.76	49.61	50.4	51.13	51.77	52.38	52.98	53.64	54.28	54.52	54.37	53.85	52.21	49.81	47.15	44.43	41.2	37.23	32.94	0	115.27
1000	40.86	43.96	46.27	47.81	48.49	49.34	50.15	50.75	51.38	52.27	52.81	53.27	53.42	53.18	52.6	50.71	48.03	45.3	42.31	38.86	34.98	30.12	0	114.12
1300	39.54	42.68	44.72	46.09	47.1	47.98	48.65	49.47	50.28	50.86	51.34	51.61	51.39	51.44	51.16	48.95	46.21	43.59	40.81	37.08	32.64	27.52	0	112.54
1600	38.27	41.24	43.26	44.69	45.65	46.54	47.34	47.87	48.16	48.57	49.18	49.93	50.15	50.3	49.82	47.39	44.27	41.69	38.3	34.59	30.28	24.55	0	110.92
2000	36.56	39.66	41.29	42.47	43.44	44.54	45.38	45.85	46.34	47.06	47.88	48.17	48.04	47.73	46.92	44.83	42.3	39.53	35.66	31.58	27.04	20.81	0	108.82
2500	33.95	37.27	39.17	40.43	41.28	42.23	43.04	43.57	44.12	44.84	45.27	45.65	45.27	44.87	44.18	41.98	39.3	36.08	31.92	27.8	22.84	12.83	0	106.27
3200	31.02	34.61	36.87	38.19	39.1	40.06	41.09	41.54	41.86	42.44	42.8	43.1	42.61	42.12	41.44	38.72	35.82	32.42	27.78	22.92	14.27	0	0	103.73
4000	27.05	31.11	33.49	34.96	35.79	36.87	38.11	38.42	38.58	39.37	39.9	39.85	38.87	38.15	37.34	34.2	31.11	27.11	21.09	1.05	0	0	0	100.28
5000	20.86	26.43	28.92	30.38	31.01	32.53	34	34.3	34.58	35.38	35.99	35.98	34.59	33.23	32.02	28.38	24.79	18.83	0	0	0	0	0	95.86
6300	0	13.74	20.54	23.39	24.95	26.87	28.34	28.98	29.37	29.98	30.22	30.23	28.83	26.83	24.78	18.57	0	0	0	0	0	0	0	89.83
8000	0	0	0	0	0	10.79	18.16	18.61	19.33	19.95	21.13	21.42	17.19	8.28	0	0	0	0	0	0	0	0	0	78.93
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	53.74	56.05	57.82	59.18	60.18	61.03	61.73	62.31	62.84	63.39	63.94	64.47	64.81	64.96	64.79	64.07	63.06	61.89	60.49	58.78	56.61	53.74	0	126.68
PNL	59.43	62.53	64.5	65.95	66.96	67.82	68.79	69.34	69.84	70.48	71.08	71.53	71.53	71.49	71.09	69.77	67.89	65.7	63.09	60.09	56.5	51.73	0	69.71

NASA Lewis Allison AST Jet Noise Test 1996

rdg 214
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 828.23
m01 0.05101
pamb 14.2925
tamb 500.007
rhumid 58.79
winds1 0
nprc 1.387
nprb 1.439
ptc 19.8237
ptb 20.5669
wactc 2.876
wactb 13.155
ttc 1179.18
ttb 501.992
ptmix 20.4336
ttmix 623.481
mixpnd 0.676542
grsvlxp 13277.4
badchan (26)
bkgnd 207
escdate 21.Nov.96
esctime 18:29:10
DADSdate 21.Nov.96
DADStime 18:29:10
btchdate 21.Nov.96
btchtime 18:29:10
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:29:29 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100
roll angle (	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100
80	71.12	72.48	73.58	74.49	75.22	75.83	76.34	76.77	77.17	77.55
100	72.11	73.83	75.08	75.98	76.53	76.9	77.14	77.34	77.57	77.69
130	73.57	74.35	74.91	75.3	75.59	75.83	76.06	76.34	76.71	77.21
160	74.9	75.7	76.41	77.06	77.65	78.22	78.76	79.27	79.74	80.16
200	75.86	76.9	77.56	78.09	78.76	79.47	79.4	79.89	80.46	80.85
250	76.49	77.89	78.5	79.07	79.57	80.07	80.55	80.93	81.25	81.65
320	77.63	79.05	79.89	80.37	80.63	80.81	80.95	81.11	81.34	81.78
400	76.92	78.5	79.53	80.28	80.97	81.74	82.44	82.81	82.8	82.77
500	77.31	79.18	80.24	80.86	81.32	81.73	82.07	82.6	83.31	83.77
630	76.86	78.88	80.36	81.53	82.3	82.66	82.83	83.33	83.87	83.77
800	77.73	79.73	81.07	81.98	82.58	83.08	83.64	84.1	84.45	84.87
1000	77.53	79.94	81.41	82.37	82.97	83.39	83.97	84.53	85.01	85.42
1300	77.24	80.33	82.15	83.19	83.73	84.05	84.46	85.08	85.86	86.08
1600	76.81	80.38	82.09	83.02	83.33	83.68	84.11	84.48	84.91	85.48
2000	76.1	79.53	81.04	81.96	82.64	83.38	84.02	84.58	84.9	85.09
2500	75.01	78.37	79.89	80.83	81.58	82.27	82.88	83.52	83.89	84.01
3200	73.86	77.48	78.95	79.67	80.22	80.97	81.85	82.56	82.96	83.22
4000	72.78	76.23	77.63	78.5	79	79.57	80.64	81.35	81.58	81.79
5000	71.22	74.99	76.25	76.52	76.85	78.06	79.51	80.18	80.18	80.12
6300	69.47	73.37	74.67	75.06	75.43	76.69	78.38	79.2	79.28	78.27
8000	68.37	72.26	73.43	73.85	74.43	75.82	77.68	78.56	78.59	78.4
10000	65.69	69.06	70.01	71.47	72.89	74.07	75.24	75.97	76.1	76.03
OASPL	88.7	91.04	92.35	93.17	93.72	94.27	94.84	95.36	95.75	96.02

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.95	78.38	78.91	79.58	80.43	81.5	82.82	84.38	86	87.49	88.71	89.58	90.19	124.25
100	78.37	79.04	79.89	80.89	82.01	83.23	84.51	85.82	87.04	88.02	88.63	88.84	88.84	124.87
130	77.88	78.74	79.78	80.97	82.28	83.68	85.1	86.53	87.76	88.58	88.63	88.45	87.53	125
160	80.55	80.94	81.5	82.36	83.56	84.94	86.28	87.37	88.09	88.39	88.26	87.82	87.36	125.86
200	81.23	81.85	82.65	83.54	84.47	86.37	86.18	86.74	86.64	86.27	85.95	85.57	85.12	125.61
250	82.25	83.06	84.02	84.85	85.42	85.87	86.28	86.66	86.93	86.82	86.26	85.3	84.06	126.25
320	82.52	83.57	84.71	85.86	86.34	86.93	87.5	87.25	86.79	86.17	85.16	83.98	83.06	126.72
400	83.19	84.34	85.56	86.19	86.91	86.96	86.79	86.05	85.65	84.1	82.86	81.84	81.51	126.76
500	84.3	85.07	85.93	86.69	87.14	87.11	86.93	86.3	85.45	84.54	83.61	82.7	81.92	127.15
630	84.5	85.38	86.4	87.25	87.63	87.26	86.68	85.98	85.18	84.31	83.4	82.5	81.75	127.41
800	85.39	86.34	87.44	88.34	88.43	87.63	86.57	85.76	85.02	84.13	82.92	81.82	80.56	128.01
1000	85.88	86.65	87.9	89.01	88.88	87.06	85.9	85.15	84.24	83.18	82.13	81.13	80.27	128.2
1300	85.98	86.74	88.18	89.8	89.75	87.89	86.1	85.14	84.29	83.54	82.69	81.77	80.97	128.72
1600	86.02	86.76	88.05	89.61	89.53	88.46	85.17	84.57	83.56	82.63	81.7	80.59	79.43	128.32
2000	85.61	86.88	88.12	89.21	89.26	88.29	84.59	83.73	82.94	82.27	81.52	80.53	79.27	128.02
2500	84.53	85.74	87.14	88.02	87.54	85.78	84.23	83.03	81.96	81.31	80.61	79.7	78.48	126.95
3200	83.43	84.31	85.4	86.02	85.79	84.76	83.14	81.71	80.85	80.39	79.4	78.39	77.13	125.62
4000	82.12	83	83.73	83.77	83.81	83.24	81.58	79.44	78.01	78.55	77.89	76.49	74.74	124.01
5000	80.57	81.55	81.91	81.58	81.26	80.81	79.23	76.49	74.48	76.27	74.97	72.34	70.86	122.16
6300	79	79.87	80.34	79.79	79.18	78.65	76.99	74.32	72.23	73.06	71.22	68.46	67.15	120.6
8000	78.32	79.24	79.17	78.25	77.4	76.8	75.45	72.96	70.6	70.77	68.4	65.61	64.57	119.54
10000	75.86	75.81	76.02	75.44	74.81	74.78	72.44	69.67	67.22	66.69	64.85	62.45	60.89	116.91
OASPL	96.44	97.31	98.41	99.33	99.52	99.69	99.26	99.09	97.99	97.91	97.66	97.27	96.85	139.52

NASA Lewis Allison AST Jet Noise Test 1998

rdg 214
run 1
test_prog Allison98
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 828.23
m01 0.05101
pamb 14.2925
tamb 500.007
rhumid 58.78
winds1 0
nprc 1.387
nprb 1.439
ptc 19.8237
ptb 20.5869
wacic 2.876
wactb 13.155
ttc 1179.18
ttb 501.992
ptmix 20.4338
ttmix 623.481
mixpnd 0.678542
gravixp 13277.4
badchan {26}
bkgnd 207
escdate 21.Nov.98
esctime 18:29:10
DADSdate 21.Nov.98
DADStime 18:29:10
btchdate 21.Nov.98
btchtime 18:29:10
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:29:34 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	49.34	51.18	52.88	53.9	54.88	55.65	56.28	56.73	57.1	57.38	57.8	57.8
100	50.29	52.5	54.15	55.34	56.16	56.69	57.04	57.27	57.46	57.68	57.99	58.42
130	51.7	52.97	53.93	54.64	55.17	55.58	55.92	56.23	56.56	56.98	57.48	58.08
160	52.95	54.24	55.38	56.32	57.17	57.91	58.55	59.08	59.52	59.85	60.06	60.21
200	53.78	55.32	56.4	57.25	58.18	59.05	59.09	59.42	60.14	60.43	60.64	61.02
250	54.22	55.94	57.16	58.08	58.82	59.51	60.09	60.51	60.79	61.08	61.5	62.09
320	55.13	57.08	58.35	59.17	59.69	60.05	60.3	60.49	60.69	61.02	61.58	62.38
400	54.07	56.2	57.87	58.77	59.73	60.88	61.48	61.9	61.85	61.71	61.94	62.83
500	54.01	56.46	57.99	58.98	59.71	60.32	60.77	61.34	62.01	62.35	62.88	63.17
630	53.06	55.67	57.67	59.21	60.27	60.83	61.14	61.67	61.97	61.95	62.48	63.08
800	53.38	56.02	57.87	59.17	60.08	60.8	61.49	62	62.32	62.61	62.92	63.55
1000	52.62	55.7	57.71	59.09	60.01	60.66	61.38	61.97	62.4	62.69	62.93	63.38
1300	51.72	55.5	57.9	58.39	60.27	60.82	61.37	62.03	62.76	62.84	62.51	62.93
1600	50.59	54.91	57.2	58.62	59.28	59.88	60.47	60.69	61.26	61.66	61.97	62.38
2000	49.03	53.25	55.41	56.82	57.88	58.97	59.67	60.29	60.55	60.58	60.85	61.53
2500	46.74	50.98	53.15	54.65	55.8	56.78	57.58	58.28	58.57	58.53	58.77	59.57
3200	43.81	48.38	50.62	51.85	52.98	54.01	55.08	55.87	56.21	56.29	56.18	56.59
4000	39.97	44.52	46.83	48.45	49.49	50.39	51.65	52.42	52.8	52.61	52.55	52.9
5000	34.24	39.33	41.68	42.83	43.81	45.45	47.15	47.9	47.8	47.43	47.5	47.91
6300	25.64	31.52	34.18	35.58	36.76	38.58	40.53	41.44	41.44	41.08	40.31	40.37
8000	0	18.85	23.22	25.24	27.01	29.35	31.75	32.77	32.62	31.94	31.15	31.11
10000	0	0	0	0	0	0	9.75	11.85	11.62	10.1	3.88	0
OASPL	64.83	67.1	68.78	69.97	70.83	71.52	72.08	72.57	72.95	73.14	73.4	73.94
PNL	71.83	75.45	77.48	78.82	79.8	80.69	81.46	82.05	82.37	82.46	82.66	83.26

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.01	58.28	58.65	59.13	59.75	60.47	61.09	61.38	61.12	60.13	58.28	124.16
100	58.95	59.58	60.19	60.82	61.39	61.86	62.08	61.84	60.97	59.3	56.8	124.74
130	58.8	59.59	60.4	61.19	61.92	62.5	62.72	62.31	61.08	58.77	55.31	124.79
160	60.45	60.9	61.61	62.39	63.01	63.24	62.94	62	60.33	57.95	54.88	125.56
200	61.49	61.97	62.39	62.68	62.76	62.45	61.3	59.67	57.78	55.39	52.24	125.2
250	62.69	63.1	63.16	62.98	62.65	62.18	61.33	59.91	57.72	54.65	50.55	125.64
320	63.17	63.69	63.85	63.8	63.6	62.41	60.63	58.63	56.1	52.71	48.74	125.87
400	63.69	63.88	64.03	63.42	62.46	60.75	59.19	56.17	52.9	49.73	46.06	125.61
500	63.66	63.96	63.84	63.12	62.11	60.45	58.35	55.9	53	49.47	44.99	125.53
630	63.7	64.06	63.83	62.72	61.24	59.46	57.31	54.78	51.72	47.94	43.04	125.33
800	64.25	64.64	64.08	62.49	60.48	58.51	56.38	53.69	50.18	45.74	40.08	125.44
1000	64.19	64.76	63.97	61.33	59.18	57.2	54.78	51.78	48.22	43.8	37.88	125.15
1300	63.93	64.77	64.22	61.49	58.84	56.38	53.92	51.11	47.55	42.92	36.54	125.1
1600	63.18	64.14	63.33	59.33	56.92	54.92	52.18	49.01	45.15	39.99	32.69	124.09
2000	62.48	62.93	62.19	58.21	55.29	52.98	50.29	47.19	43.25	37.8	29.69	123
2500	60.43	60.63	59.28	56.44	53.55	50.89	47.53	44.18	39.91	33.94	24.84	120.83
3200	57.12	56.97	55.73	53.46	50.34	47.08	43.88	40.34	35.17	28.27	15.8	117.88
4000	52.98	52.11	50.84	49.08	45.65	41.32	37.15	33.95	28.38	18.43	0	113.89
5000	47.4	45.97	44.31	42.16	38.41	33.06	27.62	24.35	13.72	0	0	108.51
6300	39.83	37.97	35.63	32.87	28.35	21.11	5.33	0	0	0	0	101.32
8000	29.58	26.8	23.02	17.68	-2.74	0	0	0	0	0	0	91.76
10000	0	0	0	0	0	0	0	0	0	0	0	69.38
OASPL	74.64	75.11	74.89	73.85	73.12	72.38	71.48	70.27	68.66	66.46	63.56	137.02
PNL	83.97	84.28	83.68	81.32	79.28	77.28	75.36	73.12	70.2	66.44	61.65	82.03

NASA Lewis Allison AST Jet Noise Test 1996

rdg	215
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	957.55
m01	0.05208
pamb	14.2917
tamb	498.853
rhumid	59.85
winds1	0
nprc	1.544
nprb	1.618
ptc	22.0664
ptb	23.124
wactc	3.127
wactb	15.411
ttc	1323.02
ttb	504.008
ptmix	22.9456
ttmix	642.159
mixpnd	0.770719
grsvixp	17751.1
badchan	(26)
bkgnd	207
escdate	21.Nov.96
esctime	18:48:45
DADSdate	97.08.20
DADStime	18:48:45
bichdate	21.Nov.96
bichtime	18:48:45

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Fri Aug 22 14:11:27 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.71	77.37	79.09	80.51	80.28	78.85	79.78	82.08	84.47	86.78	88.88	90.67	92.04	93.31	94.88	94.23	87.84	88.35	90.34	91.88	93.28	94.24	94.48	132.38
100	78.88	79.32	80.21	80.82	80.53	80.11	82.33	84.79	85.89	87.21	90.6	94.59	93.99	93.64	95.48	93.21	89.51	88.36	89.34	91.24	92.98	93.36	93.26	133.15
130	77.67	78.18	78.32	78.34	78.49	79.2	81.09	83.48	85.57	87.88	90.92	93.64	93.51	93.34	94.17	92.39	90.17	89.98	91.24	92.78	93.67	93.98	94.1	132.93
160	78.95	79.43	80.31	81.09	80.98	80.54	82.48	84.85	86.32	87.88	90.72	93.51	92.58	93.07	94.81	90.55	90.91	91.4	91.15	91.28	92.52	93.89	94.52	132.83
200	79.33	80.23	81.12	81.95	81.77	80.87	81.98	83.79	85.27	86.86	89.02	90.85	90.05	90	91.43	90.33	90.58	90.94	90.28	90.45	92.05	91.48	90.28	131.11
250	79.24	79.14	80.52	82.5	82.82	81.56	83.37	85.87	87.03	87.88	88.55	89.65	89.44	89.57	90.25	90.2	91.52	91.54	91.08	91.21	92.01	91.39	90.82	131.18
320	79.43	79.55	80.83	82.63	83.05	82.08	83.43	85.22	86.11	86.88	87.65	88.21	88.49	88.51	88.48	89.31	91.4	91.44	90.23	89.22	91.99	91.37	88.89	130.46
400	79.38	79.87	81.43	83.06	83.58	83.26	84.49	86.35	87.45	87.55	87.65	88.08	88.56	89.08	89.2	89.02	91.13	91.43	90.5	87.48	90.83	91.55	89.07	130.61
500	80.28	81.14	82.54	83.79	83.99	83.51	84.63	86.17	86.87	87.12	87.41	87.92	88.32	88.71	88.93	89.61	91.77	91.58	90.25	88.99	91.72	91.53	89.42	130.73
630	80.53	81.63	83.07	84.32	84.49	84.07	84.96	86.24	86.8	86.95	87.19	87.77	88.49	89.19	89.25	89.18	91.14	90.24	89.57	87.33	91.12	91.48	88.93	130.51
800	81.38	82.41	84	85.46	85.78	85.23	85.73	86.65	87.54	88.22	88.6	88.82	89.33	90.12	90.24	89.02	91.22	91.28	90.11	88.5	92.07	92.42	90.23	131.34
1000	81.9	82.71	85.22	87.58	87.54	85.53	86.19	87.62	88.17	88.52	88.79	89.58	90.64	91.53	90.73	88.51	90.51	91.07	89.4	89.24	92.97	92.85	90.75	131.89
1300	82.63	83.63	85.88	88.18	88.2	86.26	86.98	88.34	88.85	89.23	89.51	90.43	91.64	92.34	91.12	88.65	90.52	91.21	89.9	89.24	93.77	93.74	91.04	132.51
1600	82.74	83.77	86.13	88.38	88.53	86.84	87.28	88.44	88.92	89.15	89.71	90.88	92.32	93.29	92.03	88.61	90.41	91	89.4	89.71	94.54	95.1	92.59	132.94
2000	83.24	84.07	86.44	89.28	89.4	86.64	87.03	88.45	88.91	89.15	89.92	91.44	92.81	93.07	91.73	90.22	90.22	90.78	90.35	89.3	94.15	94.98	92.59	133.09
2500	82.57	83.56	85.88	89.1	89.47	86.35	86.52	87.98	88.56	88.93	89.68	90.99	92.09	92.3	91.15	89.58	89.72	90.44	89.77	89.12	93.68	94.32	92.15	132.63
3200	82.38	83.04	85.24	89.1	89.48	85.4	85.99	87.43	87.81	88.33	89.22	90.31	91.1	91.1	90.11	89.11	89.37	90.48	90.01	88.8	93.78	94.45	91.95	132.15
4000	81.81	82.29	84.58	88.79	88.86	84.48	85.23	86.02	86.49	87.23	88.27	89.27	89.77	88.54	88.72	88.21	88.89	89.25	88.23	87.74	93.37	94.08	91.33	131.19
5000	80.98	81.3	83.5	87.8	87.84	82.94	83.77	84.74	85.04	85.5	86.3	87.25	87.74	87.48	86.09	86.5	87.43	88.24	87.28	86.63	92.19	92.97	90.29	129.73
6300	80.07	80.77	82.47	87.22	87.71	81.72	81.71	83.21	83.77	84.19	84.88	85.68	85.9	85.72	85.31	85.42	85.98	86.39	85.16	85.38	90.88	91.68	89.29	128.45
8000	79.53	79.88	81.72	86.82	87.74	80.94	80.99	82.08	82.58	83.14	83.91	84.6	84.67	84.5	84.31	84.68	85.19	85.08	84.98	84.47	89.94	91.33	89.11	127.7
10000	77.14	77.38	78.27	83.42	85.04	78.05	78.16	78.42	79.58	79.88	80.71	81.43	81.28	81.22	81.7	82.47	82.54	81.7	81.2	81.88	88.19	87.97	87.33	124.65
OASPL	94.1	94.82	96.71	99.54	99.81	97.11	97.88	99.38	100.16	100.84	102.02	103.85	104.02	104.34	104.6	103.18	103.33	103.58	102.97	102.75	105.97	108.44	104.88	144.89

NASA Lewis Allison AST Jet Noise Test 1996

rdg 215
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 957.55
m01 0.05208
pamb 14.2917
tamb 498.853
rhumid 59.85
winds1 0
nprc 1.544
nprb 1.618
ptc 22.0664
ptb 23.124
wactc 3.127
wactb 15.411
ttc 1323.02
ttb 504.008
ptmix 22.9456
ttmix 842.159
mixpnd 0.770719
grsvixp 17751.1
badchan (26)
bkgnd 207
eacdate 21.Nov.96
eactime 18:48:45
DADSdate 97.08.20
DADStime 18:48:45
btchdate 21.Nov.96
btchtime 18:48:45
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 14:11:36 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.93	56.07	58.19	59.93	59.94	58.67	59.69	62.02	64.39	66.6	68.53	70.09
100	56.84	57.99	59.28	60.21	60.16	59.9	62.22	64.72	65.78	67	70.23	73.97
130	55.79	58.77	57.33	57.68	58.07	58.95	60.94	63.38	65.42	67.61	70.5	72.96
160	57	57.97	59.25	60.36	60.49	60.22	62.24	64.67	66.11	67.57	70.24	72.78
200	57.26	58.65	59.96	61.11	61.18	60.45	61.65	63.51	64.95	66.44	68.43	70
250	56.98	57.39	59.18	61.5	62.08	60.99	62.91	65.44	66.57	67.1	67.81	68.66
320	56.93	57.58	59.28	61.43	62.11	61.31	62.78	64.61	65.48	66.12	66.71	67.02
400	56.53	57.56	59.57	61.56	62.34	62.2	63.54	65.44	66.51	66.49	66.41	66.57
500	56.98	58.41	60.28	61.9	62.38	62.09	63.34	64.92	65.58	65.7	65.8	66.03
630	56.72	58.43	60.37	62.02	62.47	62.24	63.26	64.59	65.11	65.14	65.17	65.45
800	57.03	58.69	60.78	62.66	63.3	62.97	63.58	64.55	65.4	65.95	66.12	66.03
1000	56.98	58.46	61.5	64.28	64.57	62.79	63.59	65.08	65.56	65.79	65.82	66.27
1300	57.1	58.8	61.6	64.37	64.73	63.01	63.87	65.28	65.74	65.98	66.03	66.62
1600	56.52	58.29	61.24	63.95	64.47	63.04	63.62	64.83	65.28	65.35	65.66	66.45
2000	56.15	57.78	60.79	64.12	64.62	62.13	62.68	64.14	64.54	64.63	65.15	66.29
2500	54.27	56.12	59.15	62.92	63.71	60.86	61.19	62.7	63.21	63.41	63.88	64.8
3200	52.31	53.87	56.86	61.38	62.19	58.42	59.2	60.72	61.05	61.37	61.94	62.59
4000	49.03	50.59	53.77	58.72	59.31	55.24	56.23	57.11	57.52	58.05	58.73	58.2
5000	43.87	45.52	48.99	54.1	54.69	50.29	51.51	52.46	52.64	52.83	53.24	53.64
6300	36.37	38.93	41.94	47.61	48.82	43.59	43.89	45.48	45.93	46.03	46.16	46.19
8000	25.28	28.12	32.15	38.87	40.75	34.56	34.98	36.38	36.66	36.82	36.89	36.56
10000	0	0	0	21.71	25.19	18.66	18.26	19.87	20.29	20	20.02	18.92
OASPL	68.77	70.1	72.27	74.64	75.11	73.83	74.96	78.68	77.82	78.36	79.66	81.33
PNL	78.02	79.65	82.36	85.67	86.33	84.01	84.79	86.37	87.04	87.44	88.13	89.1

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.14	72.01	73.09	71.66	64.77	64.44	65.43	65.78	65.7	64.79	62.57	132.32
100	73.06	72.31	73.64	70.8	66.4	64.41	64.39	65.07	65.3	63.82	61.23	133.05
130	72.53	71.98	72.29	69.93	66.99	65.94	66.21	66.52	65.9	64.3	61.88	132.77
160	71.53	71.62	72.96	68	67.64	67.27	65.99	64.88	64.6	64.01	62.03	132.58
200	68.89	68.42	69.36	67.65	67.14	66.65	64.85	63.86	63.89	61.32	57.42	130.7
250	68.12	67.83	67.99	67.32	67.89	67.01	65.46	64.3	63.47	60.75	57.09	130.56
320	66.96	66.54	65.98	66.18	67.48	66.59	64.28	61.9	62.93	60.1	54.8	129.55
400	66.7	66.75	66.33	65.5	66.79	66.12	64.03	59.54	61.09	59.44	53.61	129.32
500	66.08	66.01	65.64	65.61	66.92	65.67	63.11	60.31	61.1	58.27	52.39	128.93
630	65.78	65.98	65.45	64.67	65.71	63.73	61.72	57.82	59.46	56.94	50.28	128.21
800	66.13	66.4	65.88	63.88	65.14	64.03	61.43	58.04	59.3	56.51	49.71	128.46
1000	66.93	67.27	66.81	62.8	63.77	63.09	59.91	57.83	59.03	55.52	48.38	128.47
1300	67.39	67.51	65.57	62.25	63.06	62.45	59.51	56.82	58.63	54.84	46.55	128.49
1600	67.44	67.81	65.82	61.46	62.15	61.33	57.98	56.1	58.02	54.5	45.82	128.18
2000	67.17	66.79	64.66	62.14	60.94	59.99	57.68	54.21	55.87	52.24	42.96	127.55
2500	65.36	64.87	62.85	60.23	59.03	58.07	55.38	52	52.94	48.56	38.59	125.95
3200	62.8	62.02	60.06	57.82	56.58	55.89	52.95	48.71	49.55	44.23	32.38	123.69
4000	59	57.9	55.93	53.98	52.69	51.09	47.19	43.12	43.65	37.07	22.55	120.16
5000	53.3	51.9	49.66	47.79	46.55	44.68	40.48	35.08	34.17	25.86	0	114.84
6300	45.4	43.9	41.7	39.51	37.28	34.38	28.45	21.69	17.91	0	0	107.7
8000	35.2	33.19	30.48	27.59	24.11	18.13	-1.09	0	0	0	0	98.37
10000	14.96	7.27	0	0	0	0	0	0	0	0	0	81.13
OASPL	81.1	80.97	81.21	79.03	77.82	76.9	75.42	74.23	74.42	72.53	69.25	142.32
PNL	89.32	88.98	87.72	85.38	84.67	83.64	81.26	78.45	79.5	76.21	70.2	87.32

NASA Lewis Allison AST Jet Noise Test 1996

rdg	216
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1010.37
m01	0.05514
pamb	14.288
tamb	498.821
rhumid	60.95
winds1	0
nprc	1.74
nprb	1.827
ptc	24.8611
ptb	26.1042
wactc	3.483
wactb	17.982
ttc	1415.44
ttb	504.813
ptmix	25.9025
ttmix	652.408
mixpnd	0.80882
grsvitp	21687.6
badchan	(15,26)
bkgnd	207
escdate	21.Nov.96
esctime	18:59:48
DADSdate	21.Nov.96
DADStime	18:59:48
btchdate	21.Nov.96
btchtime	18:59:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:33:45 1997

Data ambi	14.30 psia
Data ambi	538.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.32	81.51	82.38	83	83.43	83.74	83.99	84.22	84.5	84.86	85.35	86.03	86.91	88.05	89.47	91.2	93.26	95.61	97.98	100.04	101.58	102.4	102.62	135.58
100	82.39	83.54	84.37	84.95	85.37	85.67	85.92	86.17	86.48	86.69	87.44	88.17	89.12	90.3	91.75	93.49	95.53	97.82	100.04	101.85	102.97	103.25	102.73	137.17
130	83.95	84.8	85.18	85.24	85.08	84.81	84.54	84.38	84.4	84.7	85.35	86.33	87.62	89.21	91.08	93.17	95.51	98.01	100.38	102.3	103.52	103.89	103.48	137.4
160	84.65	85.46	86	86.35	86.57	86.76	86.96	87.25	87.68	88.31	89.16	90.21	91.39	92.67	94	95.34	96.65	97.88	98.99	99.88	100.53	100.94	101.29	138.6
200	85.01	85.87	86.42	86.78	86.97	87.15	87.35	87.63	88.03	88.61	89.32	89.93	90.59	91.44	92.56	93.88	95.23	96.38	97.22	97.74	97.91	97.73	97.34	135.03
250	85.13	86.15	86.82	87.21	87.42	87.55	87.71	87.99	88.48	89.28	90.33	91.35	92.37	93.48	94.67	95.82	96.79	97.46	97.76	97.69	97.26	96.57	95.82	135.78
320	86.38	87.07	87.25	87.3	87.47	87.76	88.11	88.52	88.94	89.35	89.86	90.85	91.75	93.09	94.58	95.93	96.81	96.95	96.43	95.73	94.84	93.78	92.83	135.17
400	85.54	86.53	87.11	87.54	87.97	88.43	88.94	89.51	90.17	90.96	91.83	92.62	93.48	94.58	95.61	95.79	95.99	95.55	94.84	94.02	93.06	91.93	90.95	135.24
500	86.21	87.2	87.86	88.39	88.87	89.15	89.32	89.61	90.17	90.86	91.86	92.73	93.84	94.71	95.21	95.48	95.57	95.42	94.97	94.18	92.98	91.51	90.13	135.25
630	86.21	87.55	88.25	88.73	89.12	89.5	90.07	90.82	91.48	92.11	92.88	93.91	94.96	95.72	95.88	95.42	94.84	94.38	93.64	92.69	91.8	91	90.39	135.58
800	86.78	88.08	89.16	89.96	90.3	90.48	90.78	91.54	92.37	92.8	93.76	95.57	96.78	97.14	96.68	95.91	95.44	95.09	94.44	93.56	92.59	91.54	90.56	136.56
1000	87.38	89.07	90	90.63	91.07	91.37	92.01	92.55	93.08	94	95.53	97.37	98.8	98.61	96.82	95.59	94.99	94.62	94.13	93.86	93.12	92.36	91.39	137.47
1300	87.42	89.81	91.28	91.91	92.03	92.27	92.73	93.34	93.99	94.63	96.25	98.41	100.07	99.37	96.8	95.73	94.89	94.64	94.76	94.8	94.33	93.48	92.64	138.23
1600	87.44	90.28	91.78	92.61	92.98	93.32	93.51	94.21	95.08	95.74	96.9	99.23	101.19	100.33	97.08	95.92	95.12	94.96	95.22	95.44	95.31	94.7	93.8	139.02
2000	87.11	90.09	91.68	92.66	93.34	93.96	94.1	94.68	95.42	96.34	97.86	100.58	102.88	101.01	96.48	95.62	95.27	95.43	95.65	96	95.97	95.08	93.69	139.73
2500	86.48	89.89	91.36	92.48	92.91	93.29	93.89	94.57	95.29	96.48	98.39	100.95	102.13	100.47	97.04	95.79	94.8	95.35	96.2	96.68	96.46	95.44	93.99	139.67
3200	85.67	89.09	90.9	92.31	92.87	92.82	93.5	94.41	95.33	96.39	98.13	100.45	101.34	99.78	96.96	95.93	94.55	94.82	95.37	96.09	95.97	94.83	93.36	139.23
4000	84.84	89.28	90.57	91.74	92.46	92.31	93.03	93.8	94.84	96.12	98.02	100.07	100.22	98.57	96.52	95.06	93.8	93.79	94.16	94.67	94.48	93.38	91.65	138.55
5000	83.73	88.91	90.12	90.98	91.36	91.31	92.06	93.01	94.03	95.52	97.59	99.41	99.38	97.89	95.81	94.89	92.48	92.17	92.04	92.02	91.53	90.56	89.08	137.84
6300	82.93	88.31	89.89	90.4	90.75	90.53	91.35	92.52	93.77	95.2	96.7	98.01	98.01	96.56	94.57	93.32	90.95	90.61	90.98	90.65	88.23	88.7	86.51	136.6
8000	81.95	87.47	88.93	89.89	90.41	90.28	90.92	92.14	93.62	94.99	96.63	97.49	97.1	95.52	93.68	92.51	90.23	89.42	89.65	89.38	86.47	84.57	84.24	136.01
10000	79.62	84.8	85.9	87.68	88.76	88.61	88.53	89.31	91.08	92.49	93.92	93.81	93.59	92.75	91.3	90.2	87.77	86.77	86.46	85.44	82.79	80.89	80.14	133.2
OASPL	98.77	101.23	102.41	103.23	103.68	103.86	104.3	105.01	105.85	106.84	108.34	110.2	111.22	110.33	108.64	108.34	108.24	108.78	109.5	110.23	110.64	110.6	110.18	150.6

NASA Lewis Allison AST Jet Noise Test 1996

rdg	216
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ADV
nozbid	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1010.37
m01	0.05514
pamb	14.286
tamb	496.621
rhumid	60.95
winds1	0
nprc	1.74
nprb	1.827
ptc	24.8611
ptb	26.1042
wactc	3.483
wactb	17.982
ttc	1415.44
ttb	504.613
ptmix	25.9025
ttmix	652.408
mixpnd	0.80882
gravbxp	21687.6
badchan	(15,26)
bkgnd	207
escdate	21.Nov.96
esctime	18:59:48
DADSdate	21.Nov.96
DADStime	18:59:48
blchdate	21.Nov.96
blchtime	18:59:48

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 00:33:52 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	58.53	60.21	61.48	62.41	63.09	63.57	63.91	64.18	64.42	64.68	65.01	65.44
100	60.57	62.2	63.43	64.34	64.99	65.46	65.82	66.1	66.37	66.68	67.08	67.56
130	62.08	63.41	64.2	64.58	64.66	64.56	64.4	64.26	64.25	64.45	64.93	65.67
160	62.7	64.01	64.95	65.61	66.09	66.44	66.75	67.07	67.47	67.99	68.68	69.48
200	62.93	64.29	65.25	65.92	66.38	66.74	67.04	67.36	67.72	68.19	68.73	69.1
250	62.88	64.41	65.49	66.22	66.67	66.98	67.24	67.56	68.02	68.71	69.59	70.35
320	63.67	65.1	65.7	66.1	66.53	67	67.47	67.91	68.29	68.6	68.92	69.45
400	62.68	64.21	65.24	66.02	66.72	67.37	67.99	68.6	69.23	69.91	70.6	71.12
500	62.92	64.48	65.61	66.5	67.26	67.74	68.03	68.36	68.87	69.45	70.04	70.83
630	62.41	64.35	65.53	66.4	67.09	67.68	68.37	69.17	69.79	70.29	70.85	71.59
800	62.44	64.37	65.96	67.16	67.81	68.2	68.63	69.45	70.23	70.52	71.27	72.78
1000	62.45	64.82	66.29	67.34	68.11	68.62	69.4	69.98	70.48	71.26	72.56	74.06
1300	61.9	64.97	67.01	68.08	68.55	69.03	69.62	70.27	70.66	71.39	72.78	74.6
1600	61.23	64.8	66.91	68.21	68.93	69.52	69.86	70.6	71.41	71.94	72.84	74.81
2000	60.03	63.78	66.04	67.52	68.57	69.44	69.74	70.37	71.06	71.82	73.07	75.4
2500	58.2	62.26	64.63	66.3	67.14	67.8	68.56	69.3	69.96	70.99	72.6	74.74
3200	55.59	59.96	62.55	64.56	65.56	65.84	66.7	67.68	68.53	69.36	70.82	72.71
4000	51.96	57.55	59.76	61.62	62.87	63.11	64.01	64.86	65.85	66.69	68.37	69.94
5000	46.72	53.23	55.48	57.2	58.23	58.66	59.66	60.62	61.58	62.8	64.49	65.69
6300	39.2	48.37	49.09	50.85	51.96	52.3	53.49	54.81	55.92	56.98	57.9	58.44
8000	28	36.02	39.4	41.76	43.23	43.75	44.88	46.31	47.55	48.47	49.4	49.41
10000	0	17.13	22.2	26.19	28.7	29.83	30.57	31.56	33.07	34.04	34.54	33.25
OASPL	74.13	76.24	77.69	78.72	79.4	79.89	80.38	80.98	81.56	82.17	83.17	84.62
PNL	82.6	86.02	88.01	89.44	90.26	90.81	91.46	92.17	92.85	93.67	94.95	96.63

distance: (	1655.07	1732.05	1831.18	1956.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	66.01	68.75	67.69	68.83	70.19	71.71	73.08	73.93	73.96	72.95	70.7	135.47
100	68.19	68.97	69.93	71.08	72.41	73.86	75.09	75.68	75.31	73.71	70.7	137.02
130	66.64	67.82	69.19	70.7	72.33	73.99	75.35	76.04	75.75	74.22	71.27	137.15
160	70.34	71.21	72.05	72.79	73.38	73.76	73.84	73.48	72.61	71.07	68.82	136.27
200	69.43	69.87	70.46	71.19	71.81	72.08	71.89	71.14	69.74	67.58	64.46	134.56
250	71.04	71.73	72.41	72.93	73.18	72.94	72.18	70.78	68.72	65.92	62.31	135.11
320	70.2	71.12	72.08	72.79	72.9	72.11	70.46	68.39	65.81	62.54	58.55	134.26
400	71.62	72.26	72.76	72.28	71.88	70.26	68.38	66.11	63.32	59.76	55.44	134.02
500	71.58	71.99	71.91	71.5	70.78	69.59	67.89	65.53	62.36	58.31	53.22	133.58
630	72.26	72.53	72.08	70.89	69.41	67.88	65.79	63.17	60.13	56.48	51.71	133.46
800	73.59	73.43	72.33	70.78	69.37	67.85	65.77	63.1	59.81	55.63	50.04	133.93
1000	75.08	74.36	71.81	69.86	68.25	66.84	64.84	62.25	59.21	55.05	49.02	134.36
1300	75.81	74.54	71.28	69.35	67.44	65.69	64.38	62.34	59.17	54.6	48.15	134.55
1600	76.3	74.85	70.85	68.77	66.86	65.31	63.82	61.83	58.77	54.09	47.04	134.71
2000	77.03	74.72	69.36	67.56	65.98	64.61	62.96	60.9	57.69	52.32	44.05	134.65
2500	75.41	73.06	68.72	66.37	64.07	62.99	61.74	59.54	55.74	49.66	40.36	133.46
3200	72.98	70.65	66.87	64.6	61.76	60.14	58.34	55.95	51.67	44.63	33.96	131.4
4000	69.37	66.8	63.65	61.38	57.81	55.61	53.17	50.01	44.82	36.55	23.45	128.33
5000	64.79	62.02	58.6	55.89	51.6	48.6	44.98	40.44	33.88	23.59	0	123.88
6300	57.44	54.62	50.86	47.41	42.29	36.53	34.47	28	14.31	0	0	117.11
8000	47.88	44.23	40.01	35.98	29.8	23.88	16.62	0	0	0	0	108.07
10000	30.99	27.31	21.9	12.05	0	0	0	0	0	0	0	92.78
OASPL	85.52	84.72	83.38	82.99	82.83	82.79	82.72	82.44	81.61	79.88	77.06	147.18
PNL	97.25	95.67	92.8	91.27	89.72	88.75	87.56	85.74	83.82	80.7	76.15	93.51

NASA Lewis Allison AST Jet Noise Test 1996

rdg	220
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	572.72
m01	0.20422
pamb	14.2475
tamb	497.182
rhumid	63.48
winds1	0
nprc	1.172
nprb	1.21
ptc	16.6961
ptb	17.2395
wactc	1.84
wactb	8.942
ttc	1115.13
ttb	505.957
ptmix	17.1471
ttmix	609.916
mbpnd	0.473002
gravisp	6175.07
badchan	{21,24,26}
bkgnd	226
escdate	21.Nov.96
esctime	19:35:40
DADSdate	21.Nov.96
DADStime	19:35:40
btchdate	21.Nov.96
btchtime	19:35:40

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 00:39:13 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	56.86	57.58	57.52	58.24	60.17	63.49	65.56	64.95	65.16	64.76	65.63
100	0	0	0	0	56.04	60.55	61.73	64.3	63.19	62.55	64.01	65.32
130	78.59	56.86	57.54	61.65	62.37	62.43	62.69	62.69	62.69	62.84	63.02	63.29
160	96.86	60.52	60.97	63.33	67.49	64.36	64.13	64.34	64.61	64.9	65.18	65.44
200	65.11	62.85	64.53	66.13	67.39	66.78	66.97	67.08	67.03	67.08	67.27	68.04
250	63.45	66.03	67.82	68.9	69.42	69.62	69.69	69.79	70.03	70.52	71.24	72.09
320	64.31	67.11	68.8	69.73	70.17	70.3	70.19	70.13	70.42	70.66	71.01	71.6
400	63.86	66.85	68.16	68.78	69.25	69.69	70.15	70.68	71.29	71.9	72.29	72.6
500	64	67.54	68.96	69.52	69.89	70.28	70.77	71.33	71.94	72.58	73.22	73.78
630	64.34	67.93	69.61	70.37	70.8	71.06	71.35	71.71	72.19	72.8	73.53	74.31
800	65.3	69.32	70.32	70.06	69.91	70.35	70.96	71.46	71.93	72.44	73.01	73.64
1000	64.53	68.88	69.29	68.84	69.05	69.65	70.6	71.09	71.5	72.01	72.76	73.36
1300	63.12	67.37	68.07	67.83	68.24	68.81	69.23	69.68	70.16	70.56	71.14	71.74
1600	61.96	65.96	66.7	66.5	66.86	67.5	67.97	68.41	68.87	69.17	69.58	70.29
2000	60.7	65.02	65.07	64.64	65.13	66.06	66.55	67.17	68.07	68.26	68.32	68.4
2500	59.76	63.05	63.66	63.67	64.11	64.81	65.29	65.94	66.62	66.68	66.85	67.36
3200	58.92	62.51	62.81	63.03	63.73	64.63	65.12	65.68	66.16	66.06	66.25	66.84
4000	57.89	61.39	62.09	62.51	63.3	64.28	64.65	65.01	65.62	65.6	65.74	66.4
5000	56.9	61.36	62.46	62.64	62.94	64.61	64.66	65.01	65.81	65.66	65.87	66.47
6300	57.4	61.71	62.71	63.04	63.51	65.2	65.36	65.9	66.73	66.31	66.25	67.2
8000	63.48	62.63	63.77	63.87	64.41	66.4	66.64	66.81	67.48	67.19	67.69	68.66
10000	58.4	62.44	62.66	63.16	64.47	66.04	65.4	65.34	66.15	65.9	66.57	67.23
OASPL	96.92	78.46	79.53	79.94	80.52	80.97	81.33	81.77	82.22	82.55	83.04	83.68

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	66.12	66.13	65.33	66.23	67.46	66.71	67.65	70.51	73.89	76.56	77.41	109.7
100	65.32	65.94	64.65	63.02	63.69	65.7	67.79	70.37	73.4	75.9	77.07	108.76
130	63.72	64.26	64.47	65.1	66.08	66.8	67.18	68.05	69.7	71.66	73.59	109.5
160	65.72	66.02	66.35	66.72	67.1	67.44	67.7	67.97	68.44	69.35	71.27	125.53
200	68.63	69.26	69.73	69.9	69.94	69.9	69.49	69.04	68.69	69.15	69.98	110.86
250	72.94	73.7	74.28	74.63	74.73	74.55	74.12	73.49	72.76	72.11	71.63	114.71
320	72.29	72.95	73.43	73.43	73.15	72.74	71.98	70.91	69.79	68.91	68.73	114.04
400	73.04	73.22	73.24	72.79	72.13	71.49	70.51	69.11	67.91	67.05	66.66	113.97
500	74.19	74.42	74.46	74.19	73.49	72.27	70.69	69.09	67.78	66.96	67	114.87
630	75.01	75.12	75.07	74.6	73.34	71.62	70.14	68.91	67.83	67.05	66.99	115.3
800	74.2	74.37	74.45	73.95	72.66	71.01	69.18	67.55	66.34	65.55	65.33	114.76
1000	73.34	73.27	73.43	73.37	72.27	70.06	67.66	66.21	65.01	64.31	64.31	114.11
1300	72.25	72.27	72.51	72.17	70.74	68.76	66.81	65.28	64.26	63.78	64.02	112.86
1600	71.21	71.11	71.09	70.79	69.41	67.29	65.47	64.1	63.06	62.47	62.58	111.54
2000	69.24	69.25	69.09	68.61	67.51	66.01	64.24	62.84	61.48	60.88	61.11	109.96
2500	67.87	67.56	67.09	66.46	65.28	63.74	62.35	61.07	59.85	59.06	59.2	108.43
3200	67.15	66.61	66.01	65.18	64.02	62.74	61.18	59.72	58.63	57.96	57.94	107.75
4000	66.62	65.55	65.03	64.3	62.84	61.33	59.84	58.5	57.43	56.64	56.4	107.06
5000	66.75	65.59	64.89	63.8	62.02	60.56	59.19	57.86	56.74	55.97	55.76	107.06
6300	67.51	66.72	65.62	64.08	62.23	60.82	59.37	58.26	57.12	56.14	55.58	107.71
8000	66.87	67.71	66.42	64.79	62.92	61.4	60.26	59.19	57.91	56.69	55.95	108.82
10000	67.42	66.63	65.66	64.54	62.5	59.98	58.95	58.35	56.97	55.49	54.65	107.75
OASPL	84.17	84.27	84.29	84.02	83.3	82.34	81.45	80.96	81.3	82.3	83.11	128.34

NASA Lewis Allison AST Jet Noise Test 1996

rdg	220
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	572.72
m01	0.20422
pamb	14.2475
tamb	497.182
rhumid	63.48
winds1	0
nprc	1.172
nprb	1.21
ptc	16.6981
ptb	17.2395
wactc	1.84
wactb	8.942
ttc	1115.13
ttb	505.957
ptmix	17.1471
ttmix	609.916
mixpnd	0.473002
grsvixp	6175.07
badchan	(21,24,26)
bkgnd	226
ascdate	21.Nov.96
asctime	19:35:40
DADSdate	21.Nov.96
DADStime	19:35:40
btchdate	21.Nov.96
btchtime	19:35:40

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:39:21 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	22.91	22.21	0	37.11	38.37	42.08	45.52	43.04	43.65	44.09	43.98	43.32	42.34	41.32	42.31	41.41	41.83	42.98	44.53	46.01	46.43	44.65	108.64
100	31.88	33.93	36.77	40.03	40.3	40.22	42.85	44.23	42.45	41.16	41.83	44.21	44.26	43.77	40.41	38.62	43.08	43.24	42.41	42.07	42.59	42.98	42.18	107.44
130	83.15	38.33	39.31	42.44	44.07	43.7	44.12	42.58	42.38	44.4	44.15	43.82	43.85	45.48	45.06	44.54	43.83	43.17	43.36	42.39	41.33	40.12	39.36	131.49
160	52.01	38.45	41.95	43.26	47.75	45.82	46.79	44.17	43.77	44.62	44.34	44.01	44.89	44.33	43.98	45.38	44.7	44.1	42.84	41.48	41.31	39.77	38	109.4
200	43.13	42.88	45.5	46.44	48.03	48.09	49.35	46.79	46.38	46.93	46.85	47.93	48.15	48.31	49.41	48.84	49.46	48.26	46.87	44.76	43.92	41.37	38.63	112.03
250	41.63	45.4	48.14	49.68	50.11	50.4	50.07	49.35	50.4	50.53	51.42	51.74	52.8	52.74	52.84	52.33	51.59	50.1	48.07	45.91	42.78	39.65	36.21	114.72
320	41.63	44.57	46.01	46.54	47.3	48.2	48.67	49.53	49.38	49.46	49.1	49.59	49.91	49.81	49.95	48.99	48.12	46.53	44.98	41.61	38.57	35.58	31.63	112.21
400	40.6	44.85	46.88	47.85	48.41	48.69	49.38	49.75	50.48	50.95	51.29	51.36	51.38	50.99	50.58	49.9	48.37	46.73	43.9	41.25	38.15	35.08	31.83	113.12
500	40.18	44.08	46.37	47.78	48.75	49.32	49.67	50.08	50.81	51.52	52.17	52.57	52.82	52.36	51.68	50.41	48.52	45.89	43.12	40.22	38.9	33.19	28.68	113.68
630	40.48	44.87	46.59	47.05	47.33	47.86	48.85	50.06	50.46	51.04	51.54	52.02	52.43	51.95	51.11	49.69	47.37	44.56	41.66	38.65	35.55	32.13	28.14	113.09
800	40.56	45.27	46.5	46.38	46.55	47.33	48.09	49.38	49.75	49.77	49.99	50.33	50.35	50.22	49.85	49.02	46.68	43.53	39.75	36.04	32.59	28.72	24.09	111.93
1000	38.04	42.5	43.76	44.13	44.82	45.6	46.12	48.54	48.8	49.07	49.88	49.88	49.36	48.55	48.01	46.77	44.49	41.35	37.88	34.35	30.75	26.78	21.92	110.53
1300	36.29	41.54	42.72	42.63	43.21	43.97	44.48	46.84	47.05	47.18	47.14	47.29	47.54	46.65	46.3	45.17	42.63	39.15	35.8	32.06	28.27	23.97	18.58	108.68
1600	34.32	39.21	40.12	40.01	40.66	41.88	42.33	44.83	45.07	45.14	45.2	45.38	45.63	44.77	43.95	42.58	40.08	36.93	33.33	29.6	25.55	20.85	7.88	106.5
2000	31.71	36.27	37.36	37.7	38.52	39.45	40.02	42.89	43.7	43.64	43.32	42.98	43.23	42.37	41.05	39.37	38.93	33.89	30.41	26.55	22.1	13.23	0	104.24
2500	29.3	33.88	34.73	35.37	36.5	37.65	38.31	40.68	41.27	41.08	40.96	41.08	40.94	39.8	38.28	38.46	34.05	30.94	27.2	23.03	18.25	0	0	101.85
3200	25.45	30.08	31.28	32.35	33.78	35.17	35.6	38.95	39.41	38.98	38.76	39.02	38.58	37.13	35.6	33.46	30.56	27.32	23.34	15.91	0	0	0	99.45
4000	18.01	25.28	27.47	28.56	29.73	31.68	32.16	36.07	36.54	36.37	36.14	36.25	36	33.63	32.09	29.98	26.54	22.34	12.23	0	0	0	0	96.38
5000	0	14.57	19.63	22.13	23.87	26.64	27.09	32.59	33.39	33	32.76	32.83	32.22	30.34	28.18	25.08	18.8	-2.43	0	0	0	0	0	92.51
6300	0	0	0	0	0	12.28	15.41	27.98	28.95	28.24	27.85	28.29	27.55	25.03	21.19	9.25	0	0	0	0	0	0	0	87.17
8000	0	0	0	0	0	0	0	16.83	18.28	17.21	17.23	17.53	14.94	0	0	0	0	0	0	0	0	0	0	75.82
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	83.16	54.29	56.18	57.08	58.08	58.39	59.03	59.58	59.88	60.21	60.53	60.87	61.07	60.79	60.44	59.59	58.41	56.86	54.81	53.02	51.91	50.74	48.86	132.05
PNL	80.45	61.41	63.03	63.57	64.53	65.26	65.91	66.46	66.97	67.08	67.31	67.62	67.88	67.07	66.28	64.93	63	60.58	57.69	54.54	50.87	46.68	41.95	69.47

NASA Lewis Allison AST Jet Noise Test 1996

rdg	219
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Casner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	829.12
m01	0.20376
pamb	14.2492
tamb	497.083
rhumid	62.98
winds1	0
nprc	1.394
nprb	1.446
ptc	19.8634
ptb	20.6043
wacic	2.857
wacib	13.123
ttc	1182.93
ttb	505.31
ptmix	20.4719
ttmix	826.459
mixpnd	0.675658
gravisp	13249.3
badchan	(26)
bkgnd	226
escdate	21.Nov.96
esctime	19:29:17
DADSdate	97.08.20
DADStime	19:29:17
btchdate	21.Nov.96
btchtime	19:29:17

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Fri Aug 22 14:14:57 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.99	66.68	67.89	68.75	69.36	69.96	70.3	70.72	71.16	71.67	72.26	72.91	73.57	74.22	74.85	75.43	75.96	76.43	76.86	77.3	77.82	78.63	80.15	116.38
100	67.43	69.52	70.27	70.44	70.42	70.42	70.58	70.89	71.25	71.57	71.83	72.09	72.42	72.86	73.46	74.23	75.19	76.3	77.36	78.35	79.16	79.96	81.05	116.54
130	73.35	68.43	68.95	70.84	71.09	70.95	71.21	71.83	72.52	72.33	71.8	72.07	72.77	73.47	74.14	74.92	75.9	77.07	78.24	79.26	80.1	80.83	81.69	117.25
160	71.76	71.83	71.71	73.12	74.61	73.69	73.79	73.63	73.35	73.3	73.68	74.32	75.03	75.72	76.35	76.94	77.5	78.13	79	79.81	80.57	80.92	81.16	118.65
200	70.86	72.74	73.77	74.37	74.94	74.87	74.99	75.1	75.17	75.24	75.42	75.89	76.47	76.94	77.36	77.84	78.45	79.13	79.66	79.97	79.96	79.76	79.49	119.46
250	73.15	74.65	75.58	76.06	76.31	76.53	76.91	77.36	77.57	77.83	78.34	78.89	79.62	80.1	80.48	80.81	81.14	81.35	81.2	80.8	80.31	79.9	79.24	121.64
320	73.83	75.6	76.6	76.9	77.05	77.17	77.2	77.27	77.44	77.71	78.06	78.46	78.97	79.56	80.28	80.56	80.42	80.3	80.24	79.91	79.13	77.99	76.66	121.33
400	74.86	76.99	77.88	78.19	78.32	78.52	78.87	79.24	79.49	79.9	80.58	81.06	81.3	81.62	81.99	82.07	81.66	80.99	80.33	79.63	78.74	77.56	76.08	122.86
500	75.76	78.79	79.75	79.74	79.58	79.75	80.16	80.65	81.02	81.16	81.24	81.48	82.1	82.81	83.27	83.02	82.16	81.34	80.77	80.21	79.43	78.28	76.59	123.89
630	75.18	78.82	79.7	79.58	79.5	80.21	80.62	80.79	80.93	81.13	81.45	81.97	82.83	83.33	83.86	83.35	82.17	81.3	80.45	79.39	78.17	76.85	75.44	124.05
800	76.94	80.27	81.31	81.3	81.16	81.38	81.81	82.32	82.8	83.17	83.3	83.3	83.7	84.47	85.24	84.07	82.02	81.15	80.49	79.53	78.29	76.9	75.49	125.27
1000	76.83	81.65	81.96	81.63	81.62	81.79	82.1	82.57	83.11	83.52	83.81	84.24	84.69	85.15	85.72	84.28	82.04	81.27	80.29	78.97	77.67	76.46	75.35	125.74
1300	78	82.64	82.93	82.13	82.15	82.47	82.49	83.22	84.76	84.26	84.1	85.14	85.21	85.74	86.03	84.69	82.6	81.19	80.05	78.86	77.63	76.55	75.75	126.36
1600	76.97	82.28	82.35	81.95	81.95	82.38	82.66	83	83.43	83.84	84.34	84.84	85.22	85.99	85.92	84.24	82.16	80.83	79.45	78.08	76.9	75.89	75.08	126.11
2000	75.85	81.17	81.24	81.21	81.18	81.4	81.71	82.25	82.84	83.24	83.53	84	84.37	85.46	85.47	83.71	81.65	80.49	79.27	78.01	76.85	75.77	74.94	125.4
2500	75.34	79.08	79.31	79.78	79.66	79.83	80.48	80.96	81.46	81.9	82.42	83.35	83.54	84.4	83.74	82.13	80.93	79.86	78.53	77.21	76.07	74.99	74.23	124.17
3200	73.79	77.49	77.85	77.62	77.91	78.37	79.06	79.45	79.77	80.37	81.07	81.97	82.01	82.74	82.1	80.63	79.58	78.77	77.77	76.55	75.3	74.31	73.78	122.68
4000	72.36	75.82	76.57	76.6	76.41	76.79	77.41	77.63	78.19	79.08	79.53	79.74	80.01	80.28	79.68	78.57	77.52	76.55	75.8	74.55	72.97	72.14	72	120.81
5000	71.05	74.67	75.27	75.31	74.59	75.09	75.95	76.22	76.85	77.66	77.7	78.01	77.99	77.85	77.43	76.23	74.88	73.96	73	71.66	70.17	69.26	69.05	118.97
6300	69.96	73.57	74.28	74.01	73.33	73.83	74.7	74.88	75.78	76.81	75.72	76.3	76.59	76.12	75.4	74.04	72.57	71.71	70.76	69.42	67.91	66.78	66.23	117.46
8000	69.05	73.15	74	73.75	72.78	73.04	73.94	74.17	75.11	76.13	74.67	75.58	75.36	74.81	74.11	72.67	71.18	70.37	69.37	67.86	66.13	64.74	64.06	116.61
10000	67.72	71.38	71.84	72.22	71.86	72.21	71.4	71.62	72.73	73.3	72.23	72.3	72.22	72	71.43	70.31	68.91	67.55	66.21	64.52	62.54	60.96	60.27	114.23
OASPL	87.52	91.22	91.7	91.62	91.6	91.87	92.22	92.64	93.21	93.51	93.74	94.28	94.62	95.25	95.42	94.44	93.24	92.62	92.11	91.58	91.05	90.62	90.42	135.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	219
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ADV
nozbid	SH50
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	828.12
m01	0.20376
pamb	14.2492
tamb	497.083
rhumid	62.98
winds1	0
nprc	1.394
nprb	1.446
ptc	19.8634
ptb	20.6043
wactc	2.657
wactb	13.123
ttc	1182.93
ttb	505.31
ptmix	20.4719
ttmix	626.459
mixpnd	0.675658
grsvixp	13249.3
badchan	(26)
bkgnd	226
escdate	21.Nov.96
esctime	19:29:17
DADSdate	97.08.20
DADStime	19:29:17
bichdate	21.Nov.96
bichtime	19:29:17

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 14:15:07 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	42.19	48.19	48.64	48.45	48.41	48.51	50.96	50.68	49.25	52.05	51.69	51.44	51.27	51.19	51.18	52.83	52.38	52.09	51.66	51.18	50.37	49.2	47.72	115.92
100	44.41	45.95	48.75	50.11	50.4	49.29	51.31	50.82	50.21	49.59	49.26	51.36	51.46	51.22	50.88	50.58	52.83	52.94	52.9	52.54	51.77	50.56	48.78	116.33
130	52.95	48.57	49.1	51.98	52.76	52.5	53.72	51.82	52.25	53.06	52.49	52.43	52.5	53.98	53.64	53.35	53.1	53.09	54.32	54.02	53.26	51.7	49.52	118.03
160	48.98	50.11	51.8	52.91	55.3	54.18	54.88	53.45	52.72	54.11	54.11	54.19	55.56	55.3	55.06	55.63	55.08	54.56	53.78	52.79	52.36	50.21	47.22	118.82
200	49.76	51.48	53.51	53.98	55.58	55.69	56.64	54.82	54.39	54.8	54.52	55.48	55.43	55.51	56.33	55.98	56.82	56.23	56.26	53.84	52.57	50.02	46.65	119.78
250	51.39	53.37	55.15	56.26	56.38	56.93	56.99	56.93	57.98	57.88	58.69	56.87	59.52	59.54	59.6	59.03	58.56	57.17	55.51	53.86	51.11	48	43.81	121.76
320	51.65	54.06	55.4	56.05	56.61	57.13	57.41	56.65	56.56	56.89	56.47	57.22	57.94	57.91	58.47	57.93	57.01	55.22	54.04	51.98	49.54	46.6	41.98	120.72
400	51.91	55.35	57.02	57.66	57.64	58.23	58.07	58.33	58.74	59.26	59.85	59.64	59.63	59.82	59.7	59.21	57.61	56.16	54.2	52.46	49.83	46.38	41.29	122.2
500	51.53	55.47	56.65	56.87	57.46	58.24	58.75	59.39	59.71	59.73	59.78	59.83	60.11	60.43	60.24	59	57.3	55.46	53.33	50.79	47.65	43.77	38.5	122.28
630	51.27	55.61	57.08	57.7	58.1	58.76	59.65	59.14	59.29	58.64	59.73	59.78	60.2	60.36	60.38	58.95	56.39	54.57	52.66	49.89	46.58	42.32	36.76	122.27
800	52.01	57.04	58.26	58.51	58.77	59.19	59.53	60.21	60.72	60.8	60.8	60.72	60.7	61.21	61.47	59.33	55.89	53.97	51.7	48.7	45.09	40.57	34.94	122.96
1000	52.4	57.14	58.11	58.07	58.48	59.03	59.3	60.01	60.45	60.8	60.96	61.01	61.09	61.05	60.78	58.44	55.41	53.07	50.59	47.53	43.81	39.38	33.33	122.75
1300	51.24	57.1	57.81	57.75	57.96	58.64	58.97	60.18	61.69	61.04	60.62	61.43	61.17	61.18	60.64	58.26	55.07	52.26	49.24	45.76	41.81	36.95	30.58	122.74
1600	49.28	55.65	56.12	56.34	56.66	56.92	57.46	59.39	59.75	60.06	60.22	60.32	60.09	60.19	59.67	57.24	53.9	51.15	48.09	44.63	40.53	35.46	28.5	121.56
2000	47.42	52.53	53.14	54.09	54.38	54.87	55.27	57.96	58.41	58.54	58.63	58.83	58.71	58.8	57.47	54.75	51.95	49.33	46.23	42.5	38.07	32.55	24.97	119.76
2500	44.59	49.02	50.07	50.59	50.96	51.64	52.48	55.74	56.12	56.3	56.48	56.86	56.23	56.48	54.9	52.12	49.66	47.18	43.88	39.91	35.17	26.97	19.83	117.32
3200	40.06	44.88	46.07	46.71	47.03	47.7	48.51	52.79	52.88	53.23	53.45	53.68	53.08	52.87	51.12	48.45	45.92	43.02	39.65	35.33	29.76	22.56	0	113.89
4000	34.52	39.54	41.07	41.86	41.88	42.72	43.53	46.74	49.05	49.7	49.82	49.32	48.78	47.78	46.09	43.41	40.22	37.11	33.39	28.29	20.77	0	0	109.5
5000	26.47	31.87	33.71	34.59	34.56	35.64	36.86	43.91	44.34	44.72	44.19	43.83	42.87	41.53	39.49	36.45	32.88	29.15	24.02	13.18	0	0	0	103.75
6300	1.03	19.12	23.31	24.85	24.89	26.23	27.64	37.19	38.02	38.73	37.07	36.87	36.03	34.25	31.63	27.85	22.63	15.19	0	0	0	0	0	96.7
8000	0	0	0	0	0	0	0	26.19	29.09	29.76	27.46	27.24	25.18	21.91	17.11	0	0	0	0	0	0	0	0	96.7
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	62.5	66.19	67.36	67.63	68.32	68.72	69.28	69.78	70.23	70.41	70.46	70.68	70.76	70.88	70.67	69.26	67.57	66.11	64.7	63.05	61.26	58.89	55.96	132.99
PNL	70.99	75.91	76.86	77.31	77.72	78.1	78.72	79.23	79.64	79.87	79.89	80.1	79.97	79.96	79.15	77.12	74.6	72.36	69.82	67.34	64.23	60.2	54.49	79.62

NASA Lewis Allison AST Jet Noise Test 1996

rdg	218
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	959.29
m01	0.20298
pamb	14.2507
tamb	497.415
rhumid	81.59
winds1	0
nprc	1.545
nprb	1.612
ptc	22.0173
ptb	22.9721
wactc	3.129
wactb	15.368
ttc	1326.86
ttb	505.663
ptmix	22.8106
ttmix	644.579
mixpnd	0.770669
grsvixp	17744
badchan	{24,26}
bkgnd	226
escdate	21.Nov.96
esctime	19:21:07
DADSdate	21.Nov.96
DADStime	19:21:07
btchdate	21.Nov.96
btchtime	19:21:07

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 00:36:32 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	70.47	71.84	73	73.95	74.73	75.35	75.82	76.15	76.35	76.43	76.43	76.43
100	72.35	73.94	74.9	75.46	75.78	75.97	76.12	76.3	76.56	76.96	77.5	78.17
130	75.88	76.35	75.53	75.42	75.4	75.4	75.45	75.57	75.79	76.1	76.51	77.05
160	75.6	76.94	77.68	78.02	78.14	78.14	78.11	78.13	78.24	78.49	78.91	79.48
200	75.81	77.73	78.55	78.8	78.83	78.78	78.74	78.8	79	79.4	80.02	80.74
250	77.16	78.82	79.5	79.86	80.22	80.56	80.86	81.14	81.4	81.86	81.95	82.42
320	78.58	80.59	81.66	81.99	81.73	81.27	81.01	81.02	81.15	81.42	81.85	82.44
400	79.15	80.98	81.66	81.88	82.09	82.39	82.84	83.42	84.01	84.49	84.87	85.33
500	79.36	81.81	82.72	83.1	83.36	83.63	83.79	83.98	84.27	84.73	85.35	85.91
630	79.88	83.44	84.67	84.84	84.77	84.75	84.97	85.33	85.63	85.96	86.41	87.07
800	81.37	84.61	85.47	85.48	85.64	85.93	86.21	86.57	87.11	87.6	88.01	88.54
1000	82.5	86.57	87.17	86.57	86.47	86.8	87.02	87.26	87.78	88.34	89.23	90.13
1300	83.14	87.11	87.58	87.29	87.46	87.7	87.81	88.07	88.75	88.58	90.46	91.4
1600	83.47	87.59	87.97	88	88.2	88.42	88.57	88.83	89.17	89.47	90.14	91.42
2000	82.54	86.89	87.15	87.63	87.93	88.06	88.33	88.7	89.16	89.64	90.47	91.63
2500	81.7	85.16	85.76	86.69	87.14	87.13	87.47	87.98	88.49	89.02	89.81	91.13
3200	80.3	83.45	84.16	84.91	85.91	85.43	86.14	86.4	87.29	87.98	88.29	89.64
4000	78.29	81.49	82.22	83.08	83.79	83.51	84.28	84.82	85.33	86.3	87.16	88.22
5000	76.57	80.04	80.89	81.29	81.49	81.78	82.6	82.92	83.42	84.29	85.19	86.17
6300	75.04	78.67	79.51	79.95	80.19	80.13	81.23	81.54	81.99	82.75	83	83.61
8000	73.92	77.9	78.56	79.02	78.95	79.03	80.38	80.53	80.71	81.4	81.71	81.63
10000	71.47	76.04	75.89	76.91	77.31	77.26	77.51	77.44	77.51	78.02	78.35	77.2
OASPL	92.77	96.2	96.81	97.03	97.26	97.38	97.7	98.01	98.5	99.05	99.71	100.66

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.53	76.8	77.3	78.07	79.13	80.44	81.86	83.27	84.68	86.23	88.3	121.34
100	76.91	79.71	80.54	81.36	82.19	83.01	83.86	84.79	85.88	87.35	89.43	123.03
130	77.74	78.8	79.63	80.84	82.23	83.72	85.15	86.39	87.45	88.43	89.6	123.42
160	80.2	81.06	82.02	83.07	84.14	85.14	85.96	86.57	86.99	87.36	87.95	124.51
200	81.43	82.02	82.53	83.06	83.65	84.29	84.65	85.24	85.45	85.53	85.62	124.33
250	83.17	84.13	84.4	84.9	85.77	86.39	86.7	86.72	86.49	86.11	85.4	126.05
320	83.14	83.87	84.46	84.87	85.15	85.3	85.28	85.09	84.73	84.22	83.06	125.81
400	85.85	86.39	86.32	86.11	86.04	85.91	85.59	84.97	83.98	82.87	81.11	127.26
500	86.42	86.93	87.3	87.33	86.95	86.31	85.38	84.2	82.85	81.47	80.4	127.86
630	87.4	87.78	87.95	87.84	87.47	86.84	85.73	84.35	83	81.86	80.76	128.64
800	88.68	89.06	89.12	88.71	87.81	86.76	85.61	84.36	83.08	81.87	81.01	129.91
1000	91	91.38	90.71	89.34	88.05	87.03	85.93	84.47	82.94	81.84	81.22	131.11
1300	91.61	91.68	91.06	89.75	88.39	87.3	85.94	84.4	83.01	82.1	81.54	131.81
1600	92.38	92.42	91.59	89.65	87.78	87.01	86.2	84.83	83.2	81.66	81.21	132.17
2000	92.1	91.7	91.06	89.56	87.81	86.91	85.99	84.67	83.16	81.92	81.33	131.96
2500	91.74	90.79	90.25	89.16	87.59	86.7	85.74	84.55	83.35	82.43	82	131.26
3200	90.4	89.61	88.95	88.1	87.09	86.43	85.19	83.69	82.42	81.63	81.49	130.01
4000	88.55	87.36	86.98	86.49	85.56	84.99	84.04	82.54	81.05	80.43	80.66	128.29
5000	86.13	84.62	84.73	84.45	83.23	82.59	81.44	79.84	78.54	78.19	78.56	126.18
6300	83.56	82.29	82	81.56	80.3	79.16	77.99	76.72	75.53	74.93	74.92	124.06
8000	81.33	80.09	79.94	79.31	77.83	76.89	75.49	73.91	72.82	71.86	71.67	122.49
10000	76.81	76.03	76.39	76.12	74.6	72.97	71.31	69.59	68.07	67.27	67.32	119.3
OASPL	101.2	101.03	100.67	99.88	99.06	98.62	98.12	97.55	97.11	97.02	97.46	141.69

NASA Lewis Allison AST Jet Noise Test 1996

rdg 218
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 958.29
m01 0.20296
pamb 14.2507
tamb 497.415
rhumid 61.59
winds1 0
nprc 1.545
nprb 1.612
ptc 22.0173
ptb 22.9721
wactc 3.129
wactb 15.368
ttc 1326.86
ttb 505.663
ptmix 22.8106
ttmix 644.579
mixpnd 0.770669
grsvup 17744
badchan (24,26)
bkgnd 226
escdate 21.Nov.96
esctime 19:21:07
DADSdate 21.Nov.96
DADStime 19:21:07
bichdate 21.Nov.96
bichtime 19:21:07
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:36:36 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.86	53.12	53.68	53.91	54.14	54.29	56.5	56.11	54.45	57.6	57.07	58.61	56.24	56.01	55.94	59.28	58.92	58.56	58.02	57.45	56.76	58.03	55.39	121.92
100	49.97	51.21	54.61	54.81	54.92	54.13	55.6	56.23	55.49	54.84	54.68	56.98	57.23	57.18	56.98	56.75	59.25	59.67	59.97	59.99	59.68	58.99	57.82	123.06
130	54.75	55.44	55.46	57.11	57.01	56.55	58.02	55.46	55.45	58.62	56.36	56.3	56.65	59.11	59.47	59.79	59.99	60.17	61.36	60.8	59.76	58.06	56.01	123.83
160	53.24	56.38	57.13	57.27	58.43	58.07	58.68	57.95	57.65	58.96	59	59.05	60.34	60.19	60.19	61.26	60.9	60.47	59.62	58.59	57.95	56.01	53.35	124
200	54.62	56.34	58	57.93	58.96	58.98	60.56	58.52	58.16	58.77	58.93	59.93	59.86	59.96	60.98	60.75	61.71	61.38	60.77	59.71	57.93	56.49	53.32	124.52
250	56.63	57.95	60.2	61.41	61.33	61.05	60.74	60.7	61.67	61.58	62.22	62.3	63.03	63.32	63.34	62.95	62.87	62.03	60.47	58.92	56.61	53.73	49.73	125.99
320	56.14	58.34	59.51	60.12	60.78	61.33	61.66	60.41	60.49	61.05	60.88	61.82	62.34	62.16	62.26	61.57	61.34	60.46	59.66	57.6	54.97	51.93	47.28	125.09
400	55.87	56.98	60.54	61.33	61.77	62.16	62.47	62.51	63.13	63.56	63.85	63.98	64.35	64.42	64.13	63.62	62.25	61.05	58.9	56.62	53.49	49.69	45.15	126.49
500	55.31	58.93	60.7	61.48	62.15	62.55	62.93	62.72	62.99	63.44	64.17	64.43	64.46	64.69	64.45	63.72	62.6	60.76	58.24	55.49	52.23	48.51	43.66	126.6
630	56.41	60.38	62.01	62.55	63.06	63.51	64.14	63.65	64.09	64.59	64.78	65.15	65.11	65.04	64.37	63.24	61.79	59.99	57.67	54.46	51.16	47.14	42.18	127.06
800	57.17	61.42	62.48	62.57	62.99	63.8	64.28	64.47	65	65.19	65.51	66.06	66.46	66.56	65.74	64.14	61.83	59.52	57.01	54.06	50.39	46.04	40.75	127.76
1000	57.27	62.21	63.47	63.39	63.68	64.15	64.56	64.71	65.15	65.75	66.6	67.42	67.57	67.1	65.97	64	61.97	59.7	56.66	53.03	48.95	44.66	39.09	128.33
1300	57.16	62.09	63.12	63.41	64.16	64.71	64.89	65.01	65.73	66.33	66.96	67.52	67.55	67.06	65.65	63.4	60.59	58.26	55.66	52.25	47.98	43.11	36.87	128.36
1600	55.91	60.91	61.7	62.83	63.21	63.56	64.04	65.22	65.57	65.79	66.29	67.44	67.45	66.69	64.97	62.44	59.65	57.26	54.6	51.01	46.57	41.3	34.55	127.79
2000	53.81	58.66	59.64	60.9	61.62	61.65	62.16	64.41	64.71	65.1	65.64	66.45	66.46	65.26	63.97	61.48	58.46	56.24	53.41	49.67	45.17	39.66	32.35	126.65
2500	51.02	55.16	56.59	57.63	58.69	58.74	59.49	62.72	63.16	63.47	63.84	64.61	64.75	63.01	61.42	59.37	56.73	54.21	51.01	46.99	42.12	36.19	28.17	124.57
3200	46.59	50.59	51.86	53.44	54.8	54.66	55.42	59.72	60.43	60.86	60.65	61.63	61.63	59.85	58.25	56.21	53.69	51.23	47.72	43.14	37.54	30.86	21.05	121.4
4000	40.19	44.81	46.67	48	48.82	49.32	50.3	55.73	56.16	56.82	57.33	57.74	57.09	54.69	53.19	51.34	48.42	45.83	41.71	36.3	29.88	21.54	0	116.93
5000	31.71	37.01	39.27	40.48	41.51	42.24	43.55	50.59	50.93	51.48	51.69	51.78	50.74	48.3	46.8	44.82	41.19	37.4	32.48	26.13	15.53	0	0	110.93
6300	17.99	25.99	26.97	31.01	32.04	32.66	34.37	43.89	44.25	44.64	44.32	44.09	42.78	39.96	38.01	35.19	30.92	26	17.93	0	0	0	0	103.3
8000	0	0	0	0.91	8.4	13.26	17.3	34.8	34.88	35.05	34.59	33.34	31.42	26.09	25.22	20.73	7.78	0	0	0	0	0	0	92.91
10000	0	0	0	0	0	0	0	16.66	16.54	15.6	13.93	3.79	0	0	0	0	0	0	0	0	0	0	0	73.08
OASPL	67.25	71.02	72.3	72.86	73.41	73.73	74.23	74.64	75.04	75.49	75.92	76.55	76.71	76.29	75.5	74.29	73.07	71.83	70.5	68.91	67.19	65.32	63.06	138.31
PNL	76.79	81.16	82.3	83.24	83.93	84.18	84.68	85.18	85.58	86	86.35	87	87.07	86.03	84.95	83.13	81.01	78.97	76.53	73.37	69.79	66.47	61.92	85.86

NASA Lewis Allison AST Jet Noise Test 1996

rdg 217
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ADV
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 1009.82
m01 0.20207
pamb 14.2547
tamb 497.879
rhumid 62.23
winds1 0
nprc 1.739
nprb 1.824
ptc 24.7889
ptb 26.0006
wactc 3.486
wactb 17.858
ttc 1412.74
ttb 505.091
ptmix 25.8027
ttmix 653.333
mixpnd 0.86581
grsvirp 21553.6
badchan (15,26)
bkgnd 226
exdate 21.Nov.96
extime 19:11:02
DADSdate 97.08.18
DADStime 19.11:02
btchdate 21.Nov.96
btchtime 19:11:02
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 16:52:20 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	76.7	78.08	77.62	76.97	77.01	77.58	78.39	79.22	79.87	80.19	80.17	80.08
100	77.45	78.77	78.55	78.98	80.19	80.26	80.28	80.3	80.39	80.58	80.91	81.39
130	78.45	80.09	80.78	80.87	80.61	80.19	79.79	79.53	79.5	79.81	80.47	81.42
160	79.32	80.03	80.61	81.09	81.5	81.85	82.18	82.45	82.72	83	83.32	83.74
200	79.55	81.55	82.39	82.75	82.99	83.19	83.36	83.51	83.62	83.68	83.81	84.24
250	80.67	82.13	82.89	83.28	83.52	83.72	83.95	84.28	84.76	85.41	86.18	86.68
320	82.46	83.99	84.46	84.58	84.61	84.58	84.42	84.54	85.02	85.33	85.85	86.55
400	82.32	83.82	84.57	85.04	85.46	85.87	86.29	86.73	87.16	87.57	87.97	88.42
500	83.75	85.52	86.04	86.29	86.68	86.78	86.89	87.53	88.3	88.33	88.48	89.21
630	83.67	86.02	87.06	87.45	87.64	87.87	88.07	88.22	88.54	89.11	89.94	90.98
800	85.32	88.29	89.18	89.24	89.31	89.59	90	90.39	90.74	91.13	91.78	92.79
1000	86.74	89.85	90.44	90.43	90.44	90.77	91.27	91.74	92.21	92.81	93.71	94.99
1300	87.66	91.25	91.71	91.24	91.47	91.87	92.27	92.77	93.48	94.11	94.84	96.48
1600	88.63	91.93	92.33	92.06	92.33	93	93.58	93.88	94.24	94.94	95.83	96.9
2000	88.4	91.84	92.48	92.33	92.55	93.09	93.81	94.29	94.75	95.64	96.82	97.73
2500	88.07	91.85	92.34	91.94	92.12	92.94	93.93	94.28	94.59	95.41	96.44	97.5
3200	87.56	91.09	91.86	91.59	91.63	92.58	93.74	94.07	94.82	95.37	96.56	97.29
4000	86.77	90.47	91.21	91.01	90.99	91.79	93.06	93.25	94.22	95.27	96.64	97.07
5000	85.84	89.75	90.44	89.88	89.49	90.86	92.05	92.4	93.18	94.45	95.89	96.2
6300	85.44	89.19	89.82	88.43	89.38	90.12	91.32	91.92	92.72	93.67	94.53	95.16
8000	84.92	88.66	89.25	88.09	89.39	89.92	90.91	91.29	91.96	92.87	93.82	94.57
10000	83.19	86.61	86.89	86.96	87.69	88.1	88.49	88.81	89.33	90.11	91.12	90.73
OASPL	98.47	101.71	102.33	102.15	102.29	102.88	103.66	104.03	104.59	105.37	106.38	107.2

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.19	80.71	81.78	83.3	85.12	87.08	89.08	90.99	92.78	94.57	96.71	127.75
100	82.03	82.85	83.83	84.99	86.3	87.78	89.4	91.05	92.86	94.32	96.36	128.24
130	82.58	83.89	85.3	86.78	88.33	89.84	91.58	93.12	94.48	95.71	97.06	129.63
160	84.31	85.04	85.96	87.04	88.23	89.47	90.66	91.74	92.59	93.31	94.15	129.1
200	84.94	85.83	86.86	87.94	89	90.01	90.92	91.61	92.04	92.27	92.45	129.43
250	87.08	87.34	87.73	88.93	90.45	91.24	91.68	92.05	92.23	92.01	91.1	130.34
320	87.31	88.03	88.66	89.18	89.55	89.83	90.05	90.09	89.83	89.17	88.02	129.89
400	88.96	89.67	90.48	90.79	90.75	90.8	90.71	90.2	89.22	87.98	86.65	131.1
500	89.81	90.28	90.88	90.78	90.73	90.59	90.27	89.77	88.98	87.67	86.03	131.55
630	91.91	92.52	92.85	91.93	91.02	90.85	90.28	89.62	88.65	87.32	85.52	132.62
800	93.85	94.42	94.08	92.8	91.29	90.75	90.32	89.5	88.27	86.8	85.44	134.1
1000	96.3	96.74	95.85	93.55	91.82	90.91	90.02	89.19	88.36	87.26	85.81	135.64
1300	98.32	98.67	96.37	93.74	92.24	91.49	90.9	90.04	88.69	87.69	86.44	136.91
1600	98.72	99.33	96.86	94.04	92.56	91.71	91.02	90.3	89.51	88.61	87.61	137.57
2000	99.2	99.48	97.04	94.26	92.84	92.19	91.53	90.7	89.82	89.06	88.35	137.98
2500	98.58	98.6	96.79	94.7	93.21	92.14	91.5	90.84	90	89.36	88.75	137.7
3200	97.84	97.86	96.34	94.78	93.47	92.39	91.7	90.95	90.08	89.52	89.05	137.39
4000	97.03	96.58	95.8	94.49	93.04	91.83	91.19	90.27	89.16	88.63	88.29	136.87
5000	95.93	95.4	94.73	93.41	91.67	90.38	89.55	88.51	87.27	86.71	86.44	135.83
6300	95.08	94.48	93.83	92.16	90.24	88.72	87.87	86.64	85.26	84.85	84.44	134.92
8000	94.23	93.43	92.72	91.09	88.79	87.38	86.89	85.63	83.73	82.9	82.45	134.18
10000	90.3	90.11	90.05	88.81	86.25	84.21	83.8	82.6	80.13	78.78	78.6	131.37
OASPL	108.05	108.17	108.86	105.31	104.28	103.86	103.76	103.67	103.61	103.79	104.35	147.84

NASA Lewis Allison AST Jet Noise Test 1996

rdg	217
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1009.82
m01	0.20207
pamb	14.2547
tamb	487.879
rhumid	62.23
winds1	0
nprc	1.739
nprb	1.824
ptc	24.7889
ptb	26.0006
wactc	3.486
wactb	17.858
ttc	1412.74
ttb	505.091
ptmix	25.8027
ttmix	853.333
mixpnd	0.80581
grsvxp	21553.6
badchan	(15,26)
bkgnd	226
escdate	21.Nov.96
esctime	19:11:02
DADSdate	97.08.18
DADStime	19:11:02
btchdate	21.Nov.96
btchtime	19:11:02

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 16:52:29 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	53.79	57.99	58.41	58.52	58.56	58.5	60.64	59.17	57.98	60.72	60.08
100	54.71	56.14	59.61	59.95	59.66	58.79	59.9	60.23	59.39	58.69	58.43
130	57.28	58.28	58.59	60.35	60.48	60.35	62.07	59.41	59.17	60.89	60.91
160	57.39	60.28	60.9	61.02	62.47	62.45	63.28	62.27	62.06	63.41	63.12
200	57.94	59.49	61.56	61.99	62.87	62.9	63.78	63.24	62.72	63.06	62.88
250	59.61	61.55	63.03	63.97	64.12	64.28	64.12	63.86	65.04	65.28	66.26
320	59.77	61.28	61.83	62.55	63.73	64.57	64.95	63.93	64.19	64.81	64.8
400	59.5	62.29	63.75	64.4	64.81	65.29	65.64	65.81	66.35	66.63	67.02
500	59.9	62.27	63.34	64.25	65.27	65.86	66.2	66.27	67.02	66.95	67.07
630	59.92	63.23	65.05	65.94	66.44	66.9	67.75	66.56	66.93	67.74	68.34
800	61.13	65.22	66.41	66.74	67.21	67.86	68.59	68.26	68.67	68.87	69.53
1000	61.51	65.19	66.75	67	67.68	68.34	69	69.18	69.66	70.2	70.8
1300	61.91	66.34	67.26	67.4	68.04	69.01	69.78	69.71	70.42	71.07	71.7
1600	61.51	65.62	66.83	67.17	67.8	68.67	69.52	70.27	70.65	71.31	72.06
2000	60.04	64.4	65.71	65.95	66.49	67.47	68.53	69.98	70.41	71.22	72.1
2500	57.67	62.24	63.43	63.81	64.5	65.62	67.01	68.98	69.3	69.78	70.58
3200	54.31	58.94	60.63	61.02	61.38	62.63	64.17	67.37	67.83	68.48	69.43
4000	48.98	54.29	56	56.34	56.69	58.14	58.66	64.33	65.13	66.01	67.06
5000	41.46	47.06	49.07	49.74	50.38	51.78	53.38	60.06	60.63	61.58	62.49
6300	30.85	36.81	39.49	40.68	42.02	43.34	44.84	54.2	54.95	55.59	55.92
8000	0	20.24	23.97	25.92	27.85	29.41	30.66	45.35	46	46.5	46.65
10000	0	0	0	0	0	0	0	31.17	31.36	31.38	31.28
OASPL	71.64	75.06	76.34	76.8	77.4	78.07	78.88	79.38	79.8	80.39	81.03
PNL	82.4	86.38	87.74	88.13	88.72	89.58	90.59	91.09	91.49	92.07	92.78

distance: (	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.61	59.4	59.44	59.72	62.71	62.82	63.12	63.43	63.76	63.82	63.52	62.95	127.08
100	61.15	61.69	61.94	61.98	61.94	64.93	65.52	66.12	66.52	66.51	66.03	64.95	129.04
130	61.11	61.65	63.94	64.23	64.44	64.49	64.71	66.08	65.94	65.41	64.24	62.63	128.72
160	62.8	63.52	63.37	63.78	64.38	65.81	65.91	65.57	64.9	64.63	62.75	60.08	128.68
200	63.81	63.73	63.94	64.94	65.46	65.73	66.61	66.04	65.28	63.95	62.6	59.31	129.19
250	66.4	66.86	66.75	66.9	66.72	67	66.15	65.13	64.19	62.16	59.07	54.92	129.68
320	65.77	66.3	66.32	66.65	66.37	66.4	65.52	64.81	62.94	60.37	57.29	52.98	129.27
400	67.22	67.21	67.76	68.05	67.74	66.52	65.7	64	62.15	59.43	55.89	50.68	130.16
500	67.84	68.44	68.67	68.61	67.34	65.87	64.57	63.22	61.05	57.99	54.01	48.44	130.29
630	69.07	69.74	69.97	69.12	67.52	65.52	63.91	62.24	59.77	58.74	52.58	46.96	130.96
800	70.67	71.65	71.77	70.44	68.09	65.69	63.72	61.27	58.66	55.47	51.1	45.11	132.12
1000	71.93	73.18	73.25	71.18	67.96	65.31	63.26	61.21	58.48	54.78	50.23	43.9	132.97
1300	72.72	74.27	74.27	71.19	67.59	65.09	63.02	60.73	57.93	54.36	49.62	42.95	133.61
1600	72.86	74.09	74.05	70.88	67.18	64.46	62.13	59.75	56.85	53.16	48.4	41.4	133.5
2000	72.61	73.53	73.03	69.93	66.37	63.75	61.55	58.95	55.73	51.73	46.67	39.27	132.87
2500	71.23	71.62	70.71	68.1	65.27	62.76	60.17	57.43	53.94	49.36	43.73	35.39	131.22
3200	69.62	69.29	68.24	66.26	63.69	60.79	57.68	54.39	50.41	45.42	39.03	29.37	129.26
4000	66.92	66.07	64.7	62.68	59.97	56.57	53.07	49.51	44.91	38.6	30.67	16.99	126.08
5000	62.2	61.11	59.39	57.27	54.13	50.04	45.8	41.42	35.8	28.29	15.73	0	121.12
6300	55.93	54.56	52.45	50.01	46.29	41.36	36.42	31.35	23.29	-1.77	0	0	114.58
8000	46.34	44.5	41.79	38.9	34.38	28.16	20.73	5.42	0	0	0	0	104.93
10000	28.65	28.11	23.06	18.59	0	0	0	0	0	0	0	0	88.96
OASPL	81.71	82.51	82.37	80.58	78.66	77.47	76.55	75.69	74.63	73.4	71.83	69.84	143.35
PNL	93.32	93.69	93.2	91.05	88.65	86.55	84.51	82.37	79.87	76.39	73.3	68.68	91.95

NASA Lewis Allison AST Jet Noise Test 1998

rdg	221
run	1
test_prog	Allison98
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	555.51
m01	0.30247
pamb	14.2017
tamb	497.391
rhumid	64.13
winds1	0
nprc	1.173
nprb	1.208
ptc	16.6586
ptb	17.1557
wactc	1.793
wactb	6.631
ttc	1114.71
ttb	505.308
ptmix	17.0702
ttmix	810.13
mixpnd	0.458706
gravixp	5790.64
badchan	{26}
bkgnd	225
escdate	21.Nov.98
esctime	19:45:18
DADSdate	21.Nov.98
DADStime	19:45:18
blchdate	21.Nov.98
blchtime	19:45:18

**Scenario: 150 foot arc; 77F, 70%; Full scale, Third-octave SPL
Processing date: Wed Aug 20 00:41:23 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	61.98	64.33	64.67	65.43	66.58	67.32	67.69	67.89	68.02	68.14	68.27	68.45	68.64	68.35	65.88	65.26	64.84	65.01	64.94	64.23	0	109.16
250	57.85	65.53	68.21	68.49	69.02	69.21	69.49	70.43	70.94	71.17	71.72	71.89	72.27	72.62	72.78	72.72	72.41	72.09	71.82	71.58	71.22	70.63	69.64	113.81
320	62.91	67.55	69.67	69.66	69.93	69.92	69.8	69.76	69.89	70.11	70.74	71.51	71.56	71.86	72.37	72.45	72.01	71.59	71.06	70.16	67.07	66.54	62.34	113.39
400	59.51	68.37	68.52	68.93	68.07	68.34	70.37	70.8	70.17	70.12	71.1	72.42	72.09	71.41	71.08	70.86	70.5	69.95	69.22	68.02	65	64.21	62.59	112.88
500	63.06	68.06	69.4	69.36	69.48	70.14	70.39	70.46	70.75	71.41	72.23	72.96	73.39	73.53	73.42	73.1	72.62	72	71.06	69.74	68.25	66.93	64.24	114.2
630	62.99	67.82	69.15	69.12	69.13	69.63	70.03	70.16	70.49	71.27	72.09	73.3	73.65	73.37	73.36	73.32	72.44	71.21	69.96	68.64	67.7	66.57	65.05	114.03
800	78.13	68.12	68.97	68.93	69.12	69.62	69.86	70.26	70.8	71.24	72.16	73.07	73.36	73.05	72.75	72.58	72.01	70.66	68.87	67.12	65.6	64.55	64.51	114.25
1000	63.77	67.51	67.57	67.48	68.07	68.27	68.6	69.25	70.17	70.16	69.97	71.47	72.31	71.73	71.06	70.74	69.95	68.37	66.63	65.35	64.59	64.26	64.23	112.34
1300	58.12	65.79	66.15	66.26	66.59	67.31	68.04	68.37	68.35	68.69	69.22	70.35	70.95	70.33	69.69	69.41	68.65	67.39	65.98	64.78	63.87	63.3	63.58	111.11
1600	58.11	64.16	64.24	65.06	66.26	66.5	67.32	67.66	67.78	67.88	67.83	68.56	68.72	68.14	67.91	67.99	67.5	66.19	64.69	63.75	63.1	62.37	62.43	109.8
2000	55.87	62.23	62.65	63.02	63.72	64.45	65.13	65.35	65.49	65.78	65.94	66.86	66.95	66.67	66.3	65.83	65.29	64.31	63.19	62.32	61.7	61.12	61.24	107.85
2500	54.43	61.17	61.74	62.4	63.04	62.9	63.47	64.08	64.73	65.14	65.15	65.89	65.64	65.06	64.47	63.9	63.41	62.15	60.6	59.82	59.49	59.24	59.65	106.55
3200	55.16	60.92	61.71	62.4	62.9	63.1	64.04	64.29	64.75	64.99	64.36	65.16	65.14	64.49	63.6	62.79	62.2	61.15	59.87	58.96	58.27	57.69	58	106.19
4000	54.14	60.19	60.86	61.85	62.51	62.7	63.99	63.91	63.95	64.52	64.25	65.11	64.76	63.56	62.72	62.22	61.49	60.31	59.1	58.25	57.47	56.68	56.61	105.7
5000	55.69	60.82	61.75	61.99	62.33	62.84	64.82	64.32	63.92	64.64	64.78	65.35	64.95	63.6	62.55	62.1	61.46	60.29	59.02	58.12	57.33	56.59	56.72	105.94
6300	62.18	62.2	62.88	63.09	63.32	63.83	65.68	65.49	64.88	65.72	65.27	65.87	65.93	64.72	63.46	62.79	62.17	61.05	59.66	58.5	57.47	56.63	56.84	110.91
8000	63.39	63.74	64.09	64.58	64.98	64.95	66.87	66.91	66.01	66.62	66.66	67.41	67.11	65.93	64.77	63.95	63.15	62.07	60.91	59.93	58.91	57.91	57.82	112.15
10000	96.6	63.84	63.3	63.92	65.06	65.23	65.9	65.91	64.96	65.24	65.38	65.14	65.06	64.47	63.73	63.32	62.92	61.4	59.62	58.75	57.9	56.56	56.14	123.29
OASPL	97.02	77.6	78.81	79.06	79.34	79.69	80.4	80.69	80.84	81.21	81.66	82.51	82.74	82.45	82.18	81.96	81.42	80.53	79.56	78.8	77.35	76.57	75.24	126.59

NASA Lewis Allison AST Jet Noise Test 1996

rdg	221
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.38
scale	4
vid	535.51
m01	0.30247
pamb	14.2017
tamb	497.391
rhumid	64.13
winds1	0
nprc	1.173
nprb	1.208
ptc	16.6586
ptb	17.1557
wactc	1.793
wactb	8.631
ttc	1114.71
ttb	505.308
ptmix	17.0702
ttmix	610.13
mixpnd	0.456708
gravwp	5790.64
badchan	(26)
bkgnd	225
escdate	21-Nov-96
esctime	19:45:18
DADSdate	21-Nov-96
DADStime	19:45:18
btchdate	21-Nov-96
btchtime	19:45:18

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:41:29 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	38.87	43.29	44.02	0	0	0	0	0	0	41.86	41.41	43.77	42.59	41.12	0	0	0	0	0	102.68
160	0	38.98	43.53	46.29	47.34	48.16	49.45	47.02	48.26	48.3	48.49	49.21	48.84	50.02	48.9	49.23	47.97	47.85	39.68	38.61	37.03	34.38	28.54	111.54
200	36.06	44.51	48.08	48.9	49.82	49.87	49.44	50	51.14	51.44	51.8	51.91	51.24	51.04	50.8	49.65	48.94	47.12	46.58	44.93	43.55	40.92	36.32	113.79
250	40.42	44.18	46.25	46.24	45.76	46.59	48.74	49.15	48.74	48.6	48.98	49.82	49.58	49	48.68	47.89	46.51	45.1	45.84	43.24	38.37	35.72	28.89	111.64
320	35.74	44.55	46.56	47.28	46.9	48.77	49.25	49.87	49.45	49.14	49.89	50.74	50.61	50.28	49.91	49.19	48.1	46.86	43.41	40.66	36.06	32.83	29.64	112.42
400	39.49	44.85	46.7	47.22	47.54	47.91	48.54	49.19	49.8	50.41	51.1	51.5	51.72	50.94	50.37	49.51	47.69	45.3	44.45	41.81	38.51	34.74	28.49	112.8
500	38.44	44.31	45.97	46.15	46.33	47.31	47.78	48.51	48.74	49.59	50.28	51.13	50.97	50.12	49	48.38	48.84	44.38	42.85	40.17	37.04	33.2	28.41	111.91
630	53.17	43.84	44.88	45.21	45.7	45.64	45.92	48.16	48.31	48.39	48.53	49.27	49.42	48.39	47.14	45.83	44.17	41.37	41.14	37.84	33.9	30.08	25.78	110.87
800	37.9	42.2	42.91	43.11	43.59	44.3	45.09	46.69	47.84	47.46	47.29	48.13	48.17	46.62	44.96	43.77	42.01	39.47	38.15	34.95	31.93	28.49	24.01	108.86
1000	32.83	39.87	40.34	41.27	42.58	42.86	43.87	45.33	45.04	45.02	45.09	45.43	45.33	44.28	43.21	42.16	40.37	37.71	38.5	33.44	30.05	25.97	21.12	106.75
1300	29.86	37.19	37.63	38.48	39.54	40.44	41.13	44.07	44.03	43.78	43.2	43.37	43.11	41.93	40.57	39.21	37.5	34.92	34.51	31.41	27.87	23.49	17.57	104.65
1600	27.23	34.48	35.52	36.44	37.27	37.67	38.29	41.07	40.98	41.19	41.04	41.33	40.3	39.12	37.92	36.38	34.51	31.71	31.97	28.83	25.27	20.5	2.38	102.01
2000	24.8	31.88	33.28	34.51	35.65	36	37.06	38.81	39.35	39.35	38.98	39.49	38.85	37.42	35.81	33.89	31.71	28.99	28.18	24.84	21.21	11.75	0	100.04
2500	22.06	28.56	30.35	32.01	33	33.42	34.87	37.55	37.93	38.08	37.07	37.53	36.73	34.96	33.06	31.24	29.03	25.95	25.62	21.95	13.91	0	0	98
3200	14	24.29	26.18	27.83	28.9	30.01	32.16	34.94	34.98	35.53	34.93	35.04	34.21	31.85	29.72	27.97	25.7	21.75	22.02	13.54	0	0	0	95.11
4000	28.2	12.54	18.32	21.05	23.06	24.77	27.54	31.86	31.47	32.22	31.89	31.71	30.71	28.64	28.24	23.58	18.36	0	8.63	0	0	0	0	91.44
5000	19.52	0	0	0	0	-2.77	18.12	27.55	27.07	27.83	27.05	27.13	26.13	23.08	17.89	0	0	0	0	0	0	0	0	88.08
6300	16.61	0	0	0	0	0	0	16.85	15.27	16.49	15.54	14.6	6.98	0	0	0	0	0	0	0	0	0	0	74.45
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	54.02	53.18	55.24	55.95	56.47	57.22	57.9	58.37	58.72	58.9	59.25	59.62	59.66	59.2	58.42	57.77	56.43	54.79	52.79	50.43	47.55	44.52	39.5	121.4
PNL	60.14	59.5	61.03	61.83	62.82	63.58	64.5	64.91	65.04	65.31	65.51	65.96	65.77	65.01	63.86	62.87	61.25	59.06	56.2	52.97	48.74	43.85	38.44	83.51

NASA Lewis Allison AST Jet Noise Test 1996

rdg	222
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	814.82
m01	0.30217
pamb	14.1977
tamb	497.089
rhumid	65.34
winds1	0
nprc	1.387
nprb	1.443
ptc	19.6922
ptb	20.4873
wactc	2.771
wactb	12.966
ttc	1181.97
ttb	503.824
ptmix	20.3473
ttmix	623.233
mixpnd	0.665721
grsvixp	12822.8
badchan	(16,23,24,26)
bkgnd	225
escdate	21.Nov.96
esctime	19:55:20
DADSdate	21.Nov.96
DADStime	19:55:20
btchdate	21.Nov.96
btchtime	19:55:20

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 00:43:25 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	54.87	54.57	54.65	67.89	68.88	69.82	70.28	70.7	70.52	70.09
100	0	63.44	63.2	63.54	64.67	66.93	70.8	71.35	70.31	69.24	69.14	71.4
130	63.07	65.59	66.68	66.96	68.11	68.74	68.52	68.57	69.72	69.63	68.75	69.2
160	65.41	70.36	69.82	70.64	69.89	69.73	70.98	71.54	71.82	71.96	72.06	72.37
200	68.21	70.29	71.14	71.7	71.68	71.42	71.19	71.07	71.06	71.35	72.02	72.65
250	69.57	73.09	74.73	75.24	75.15	74.82	74.51	74.39	74.59	75.06	75.68	76.33
320	71.96	74.47	75.57	75.95	75.91	75.7	75.5	75.42	75.53	75.54	75.81	76.18
400	72.25	74.97	75.73	75.68	75.75	76.52	77.13	77.53	77.85	78.13	78.34	78.53
500	74.17	77.21	77.46	77.26	77.68	78.28	78.51	78.58	78.73	78.96	79.24	79.68
630	74.18	78.05	78.4	78.14	78.52	78.43	77.99	78.48	79.19	79.74	80.11	80.38
800	78.54	80.48	80.71	80.08	80	80.24	80.46	80.69	80.79	80.8	80.87	81.25
1000	76.85	80.66	80.51	79.95	80.48	81.04	81	81.24	81.7	81.91	81.78	81.75
1300	77.04	81.13	80.47	80.55	81.21	81.34	81.18	81.6	82	82.2	82.25	82.49
1600	76.82	80.79	80.78	80.48	81.04	81.35	81.12	81.24	81.36	81.38	81.49	81.64
2000	75.33	79.17	79.49	79.31	79.61	80.18	79.83	80.25	80.49	80.42	80.81	81.66
2500	73.91	76.97	77.44	77.79	78.01	78.48	78.6	78.95	79.05	79.06	79.53	80.27
3200	72.18	75.29	75.57	76.28	76.71	77.06	76.93	77.25	77.85	77.44	77.92	78.61
4000	70.78	74.23	74.37	75.31	75.2	75.56	75.34	75.68	76.07	75.81	76.09	76.63
5000	69.18	73.29	73.15	74.48	73.77	74.2	73.88	74.01	74.01	73.8	74.43	75.09
6300	69.18	72.38	72.52	73.7	72.92	73.21	72.92	73.07	73.17	72.95	73.03	73.48
8000	69.14	72.51	72.39	74.05	73.13	73.05	72.95	72.85	72.38	72.21	72.48	72.84
10000	68.36	71.22	70.81	72.69	72.51	72.05	71.02	70.45	69.91	69.63	70	69.22
OASPL	86.22	89.84	89.99	90.02	90.25	90.57	90.52	90.78	91.03	91.13	91.32	91.73

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	69.79	69.9	70.55	71.88	73.3	72.42	70.76	71.06	72.43	73.86	75.39	112.83
100	73.81	74.41	73.83	73.44	73.87	73.37	73.15	74.16	74.96	74.92	76.19	114.37
130	69.94	70.12	70.03	70.44	71.96	73.02	73.37	73.69	74.44	75.71	77.33	113.27
160	72.49	72.54	72.68	72.95	73.43	73.82	74.18	74.87	75.82	76.7	76.87	115.23
200	72.98	73.13	73.27	73.5	73.83	74.2	74.57	74.93	75.35	75.97	77.03	115.53
250	76.91	77.38	77.69	77.83	77.79	77.6	77.27	76.87	76.5	76.34	76.82	118.87
320	76.73	77.05	77.13	76.98	76.63	76.1	75.46	74.78	74.12	73.72	73.78	118.74
400	78.88	79.23	79.37	79.15	78.51	77.8	76.58	75.58	74.76	74.31	74.38	120.39
500	80.26	80.71	80.79	80.43	79.8	78.43	77.08	75.71	74.51	73.66	73.46	121.62
630	80.73	80.99	80.9	80.26	79.07	77.69	76.44	75.57	74.91	74.29	73.98	121.92
800	81.88	82.31	82.26	81.61	80.37	78.75	77.13	75.82	74.88	74.33	74.32	123.39
1000	82.33	82.64	82.28	81.48	80.3	78.49	76.69	75.3	74.39	73.97	74.01	123.77
1300	83.18	83.77	83.77	82.69	80.84	79.15	77.69	76.13	74.93	74.46	74.9	124.41
1600	82.97	83.65	83.37	82.33	80.78	79.15	77.52	75.69	74.59	73.89	73.94	124.1
2000	82.34	82.34	81.67	80.57	79.36	78.07	76.76	75.42	74.42	73.94	74.05	123.01
2500	80.75	80.57	79.9	79.17	78.49	77.22	75.65	74.52	73.75	73.26	73.45	121.52
3200	78.86	78.62	77.98	77.11	76.26	75.29	74.24	73.37	72.78	72.51	72.78	119.83
4000	77.03	76.82	76.03	74.95	73.84	72.84	71.93	71.07	70.41	70.17	70.8	118.11
5000	75.21	74.72	73.68	72.29	70.98	69.77	68.94	68.08	67.4	67.2	67.91	116.34
6300	73.76	73.18	71.8	70.15	68.61	67.42	66.54	65.78	65.25	65.2	66.15	115.12
8000	72.78	72.24	70.92	69.15	67.31	65.99	65.13	64.32	63.74	63.74	64.91	114.68
10000	69.79	70	68.99	67.22	65.16	63.46	62.2	61.26	60.7	60.71	61.69	112.77
OASPL	92.34	92.61	92.37	91.65	90.68	89.52	88.42	87.6	87.16	87.11	87.6	133.64

NASA Lewis Allison AST Jet Noise Test 1996

rdg	222
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	814.82
m01	0.30217
pamb	14.1977
tamb	497.089
rhumid	65.34
winde1	0
nprc	1.387
nprb	1.443
ptc	19.6922
ptb	20.4873
wactc	2.771
wactb	12.986
ttc	1161.97
ttb	503.824
ptmix	20.3473
ttmix	823.233
mixpnd	0.665721
grsvixp	12822.8
badchan	[16,23,24,26]
bkgnd	225
escdate	21.Nov.96
esctime	19:55:20
DADSdate	21.Nov.96
DADStime	19:55:20
btchdate	21.Nov.96
btchtime	19:55:20

**Scenario: Fly-over, full scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:43:31 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (i	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	0	0	40.71	48.26	49.78	51.27	49.64	49.14	49.61
80	0	45.82	46.27	44.48	47.19	48.88	49.22	51.28	49.19	47.58	49.84	50.6
100	41.82	44.28	46.57	48.07	46.98	49.33	49.96	48.45	49.34	49.81	48.13	51.15
130	43.38	48.77	47.98	49.79	50.4	50.97	50.42	51.37	50.78	51.56	51.12	52.04
160	46.5	49.19	50.09	51.79	52.91	53.48	54.36	50.79	51.27	50.89	52	53.21
200	48.16	51.81	54.28	55.43	55.71	55.57	55.06	53.96	55.31	56.09	56.66	56.84
250	49.41	52.3	53.61	53.9	54.22	56.02	55.86	54.81	54.58	54.8	55.2	55.81
320	49.06	52.91	54.2	54.66	55.21	56.55	57.07	56.62	57.12	57.06	56.92	56.84
400	50.19	54.05	54.91	55.28	56.17	56.47	56.24	57.31	57.57	57.87	58.3	58.24
500	50.18	55	56.21	56.39	56.81	57.46	58.15	56.82	57.75	58.37	58.57	58.73
630	51.7	56.35	56.97	56.74	57.33	58.12	58.31	58.6	58.44	58.42	58.5	58.99
800	51.42	55.98	56.19	56.18	57.44	58.12	58.13	58.68	59.2	59.25	58.83	58.33
1000	50.74	55.39	55.66	56.24	57.1	57.57	57.45	58.55	58.9	59.02	58.9	58.82
1300	49.65	54.39	54.77	54.66	55.3	55.84	55.52	57.84	57.78	57.51	57.21	57.07
1600	46.71	51.14	52.06	52.49	53	53.63	53.5	55.95	55.96	55.66	55.74	56.21
2000	43.5	47.22	48.12	49.04	49.78	50.44	50.41	53.69	53.58	53.24	53.36	53.52
2500	38.84	42.84	43.98	45.47	45.95	46.6	46.56	50.55	50.8	50.18	50.12	50.23
3200	33.15	38.05	39.19	40.85	41.05	41.83	41.54	46.82	46.97	46.28	46.11	45.98
4000	24.6	30.62	31.95	34.13	33.96	36.07	35.1	41.71	41.51	40.86	40.9	40.77
5000	0	17.41	20.76	24.45	24.88	25.9	26.33	35.34	35.39	34.9	34.46	34.03
6300	0	0	0	0	0	0	0	26.39	26.01	25.33	24.79	23.64
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	60.42	64.73	65.54	65.92	66.8	67.25	67.45	67.89	68.18	68.24	68.29	68.46
PNL	69.73	74.35	75.08	75.44	76.07	76.78	76.76	77.21	77.35	77.16	77.21	77.5

distance: (i	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	52.94	52.18	50.75	49.59	48.64	49.92	46.05	44.59	43.49	42.24	44.58	113.02
80	50.52	51.01	49.73	48.26	48.76	49.27	48.59	47.88	46.75	44.55	43.01	113.44
100	50.53	49.23	50.27	49.96	49.89	50.1	48.5	47.48	46.88	46.01	45.04	113.8
130	51.81	51.89	50.89	50.99	50.15	49.2	49.21	48.59	47.64	46.27	43.68	115.03
160	52.97	54.13	53.85	54.5	53.73	53.64	49.51	48.48	47.14	45.69	44.66	116.82
200	56.69	56.54	65.98	54.65	53.61	51.61	52.13	50.22	48.74	46.41	43.73	119.07
250	56.29	56.42	56.35	55.86	54.53	52.66	50.05	47.83	45.61	42.94	40.02	118.63
320	57.49	57.81	57.65	56.86	55.32	53.25	50.7	48.23	45.74	43	40.24	119.85
400	58.27	57.98	57.51	56.19	54.24	51.84	50.51	47.8	44.73	41.43	37.82	120.13
500	58.95	58.92	58.12	56.91	54.82	52.26	49.39	46.93	44.35	41.08	37.02	120.73
630	58.98	58.72	57.95	56.43	54.31	51.33	49.32	46.33	43.26	39.93	35.64	120.97
800	58.8	59.06	58.49	56.61	53.78	51	48.15	44.91	41.7	38.13	33.59	120.98
1000	59.13	58.87	58.07	56.22	53.54	50.46	48.1	44.75	41.1	37.2	32.59	120.78
1300	57.75	57.57	58.03	53.9	51.41	48.67	47.22	43.5	39.44	35.07	29.59	119.25
1600	56.12	55.11	53.49	51.65	49.83	46.75	45.47	41.91	38.01	33.44	27.32	117.29
2000	53.22	51.94	50.11	48.07	45.93	43.27	43.15	39.55	35.55	30.56	23.89	114.39
2500	49.75	48.81	47.07	44.7	41.8	38.74	40.08	36.42	32.18	26.86	17.92	111.04
3200	45.49	44.06	41.81	38.98	35.76	32.24	35.4	31.29	26.36	18.65	0	106.64
4000	40	38.33	35.54	32.19	28.5	24.11	28.47	23.52	12.64	0	0	100.9
5000	33.15	31.3	28.23	23.6	15.42	0	16.26	0	0	0	0	93.95
6300	21.77	17.7	1.94	0	0	0	0	0	0	0	0	83.47
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	68.7	68.56	67.84	66.58	64.78	62.98	61.08	58.96	57	54.82	52.97	130.69
PNL	77.5	77	75.72	73.93	71.73	69.19	66.32	63.05	59.8	55.99	51.37	75.44

NASA Lewis Allison AST Jet Noise Test 1996

rdg	223
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	950.65
m01	0.30327
pamb	14.1982
tamb	496.569
rhumid	64.13
winds1	0
nprc	1.542
nprb	1.616
ptc	21.8936
ptb	22.9443
wactc	3.06
wactb	15.441
ttc	1319.14
ttb	503.296
ptmix	22.7705
ttmix	638.234
mixpnd	0.767514
grsvlxp	17588
badchan	[23,24,25,26]
bkgnd	225
escdate	21.Nov.96
esctime	20:09:47
DADSdate	21.Nov.96
DADStime	20:09:47
btchdate	21.Nov.96
btchtime	20:09:47

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 00:45:31 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	68.4	70.65	70.44	70.07	70.51	71.38	72.19	72.57	72.3	71.93	72.49	74.03
100	69.91	71.33	72.33	73.01	73.43	73.85	73.69	73.5	73.2	72.91	72.83	73.06
130	70.89	72.04	72.66	72.82	72.7	72.46	72.23	72.08	72.08	72.28	72.71	73.32
160	71.93	74	74.73	75.11	75.61	75.77	75.31	75.04	75.3	75.6	75.38	75.62
200	72.59	75.13	76.19	76.83	76.97	76.72	76.39	76.33	76.35	76.56	77.29	77.96
250	74.03	76.81	77.98	78.39	78.52	78.53	78.56	78.71	79.06	79.53	79.88	80.05
320	76.88	79.67	80.74	80.86	80.49	79.97	79.51	79.29	79.4	79.77	80.14	80.48
400	77.43	80.59	81.35	81.35	81.24	81.17	81.2	81.37	81.63	81.94	82.28	82.67
500	77.78	81.55	82.61	82.65	82.54	82.47	82.47	82.55	82.7	82.81	83.01	83.85
630	78.77	82.88	83.59	83.41	83.55	83.84	83.53	83.63	83.87	84.21	84.66	85.13
800	80.54	85.28	85.66	84.88	84.55	84.62	84.86	85.19	85.56	85.89	85.99	86.35
1000	81.75	86.55	86.86	86.18	85.85	85.87	86.04	86.37	86.83	87.28	87.49	87.77
1300	82.65	87.63	87.52	87.12	87.01	87.08	87.4	87.77	88.07	88.14	88.2	88.88
1600	82.8	87.68	87.57	86.97	87.05	87.28	87.42	87.59	87.69	88.29	88.19	88.81
2000	82.1	86.39	86.8	86.44	86.55	86.93	87.3	87.54	87.76	88.11	88.54	88.95
2500	80.44	84.68	85.5	85.56	85.92	86.05	86.22	86.63	86.95	87.27	87.6	88.39
3200	78.89	82.55	83.51	83.71	84.06	84.36	84.75	85.23	85.86	85.99	86.33	86.93
4000	76.65	80.4	81.5	81.75	81.8	82.33	82.9	83.04	83.76	84.17	84.71	85.27
5000	74.73	78.67	80.27	80.2	79.3	80.32	81.27	81.18	81.5	82.03	82.77	83.09
6300	73.68	77.47	78.8	79.18	78.12	79.18	80.2	80.29	80.51	80.46	80.55	80.85
8000	72.49	76.82	78.11	78.48	77.02	78.41	79.31	79.26	79.39	79.06	79.09	79.24
10000	70.89	75.06	75.33	76.03	75.09	76.98	76.71	76.41	76.45	76	76.05	75.06
OASPL	81.59	95.69	96.35	96.11	96.04	96.25	96.49	96.72	97.05	97.33	97.58	98.08

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.92	75.28	75.65	76.2	76.89	77.69	78.58	79.6	80.86	82.63	85.43	118.27
100	73.57	74.31	75.2	76.16	77.12	78.07	79.01	79.96	81.1	82.59	84.9	118.59
130	74.03	74.76	75.45	76.07	76.67	77.36	78.27	79.44	80.85	82.53	84.64	118.28
160	76.24	77.04	77.79	78.41	79.03	79.75	80.62	81.68	82.77	83.72	84.09	120.45
200	78.4	78.68	78.89	79.11	79.35	79.64	80	80.48	81.1	81.91	82.94	120.94
250	80.32	80.75	81.32	81.88	82.19	82.31	82.39	82.55	82.81	83.19	83.55	123.12
320	80.98	81.57	82.15	82.52	82.5	82.27	81.97	81.69	81.46	81.29	81.07	123.72
400	82.87	83.02	83.21	83.29	82.94	82.33	81.69	81.19	80.82	80.5	79.89	124.81
500	84.28	84.69	84.8	84.53	83.65	82.98	82.05	81.24	80.67	80.39	80.16	125.9
630	85.56	85.79	85.71	85.06	83.79	82.73	82.04	81.23	80.4	79.79	79.43	126.85
800	87.4	87.91	87.89	87.31	85.7	83.96	82.58	81.64	80.98	80.44	79.9	128.48
1000	88.55	89.25	89.35	88.41	86.2	83.86	82.18	81.49	81.3	81.03	80.61	129.67
1300	89.35	89.5	89.54	88.82	86.6	84.5	83.09	82.22	81.64	81.27	80.97	130.49
1600	89.39	90.02	89.99	88.67	86.42	84.27	82.85	82.36	82.08	81.58	81.42	130.55
2000	88.99	89.49	89.67	88.66	86.44	84.13	82.63	82.22	82.09	81.75	81.64	130.28
2500	88.5	88.7	88.59	87.48	85.38	83.65	82.64	82.14	81.65	80.99	80.99	129.41
3200	86.78	86.95	87.24	86.55	84.5	82.9	82.05	81.42	80.74	80.19	80.5	127.97
4000	84.91	84.54	84.81	84.51	83.09	81.72	80.87	80.29	79.57	78.71	79.17	126.03
5000	82.55	82.07	82.11	81.89	80.47	79.08	78.28	77.91	77.35	76.37	76.78	123.88
6300	80.28	79.93	79.64	78.79	77.23	76.08	75.43	74.9	74.19	73.48	74.2	122.05
8000	78.28	77.64	77.38	76.6	74.93	73.71	73.11	72.63	71.89	70.98	71.46	120.65
10000	74.03	73.7	73.58	73.02	71.96	70.63	69.48	68.79	68.07	67.18	67.49	117.74
OASPL	98.39	98.73	98.81	98.11	96.53	95.17	94.4	94.12	94.07	94.23	94.89	139.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg	223
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	950.65
m01	0.30327
pamb	14.1962
tamb	496.569
rhumid	64.13
winds1	0
nprc	1.542
nprb	1.618
ptc	21.8936
ptb	22.9443
wactc	3.06
wactb	15.441
ttc	1319.14
ttb	503.296
ptmix	22.7705
ttmix	638.234
mixpnd	0.767514
grevlup	17586
badchan	{23,24,25,26}
bkgnd	225
escdate	21.Nov.96
esctime	20:08:47
DADSdate	21.Nov.96
DADStime	20:08:47
btchdate	21.Nov.96
btchtime	20:08:47

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 00:45:37 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (i	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115
64	47.07	49.21	49.93	52.72	52.01	51.74	51.41	52.53	53.11	51.91	51.76	52.14	54.46
80	46.86	50.8	51.89	51.49	53	52.66	52.79	53.43	51.88	50.8	52.46	51.78	50.77
100	50.09	51.07	51.71	53.12	53.43	54.85	53.56	51.97	51.66	52.57	52.35	54.17	54.38
130	50	52.85	54.36	55.25	55.89	56.25	55.3	54.85	54.5	56.06	55.59	56.95	56.78
160	50.65	53.89	54.82	55.94	56.86	57.49	58.47	56.05	56.34	55.86	58.51	57.51	57.07
200	52.7	55.9	58.28	59.47	59.82	59.61	58.99	58.28	59.26	60.27	60.56	60.56	60.34
250	54.46	57.94	58.82	58.67	58.72	59.66	60.04	58.67	58.43	58.51	58.64	59.1	59.55
320	53.78	57.76	58.57	60.55	60.78	60.98	61.03	60.46	60.95	61.16	61.4	61.47	61.83
400	53.96	58.49	59.98	60.27	60.83	61.32	61.58	61.28	61.58	61.69	62.15	62.48	62.97
500	54.89	60.1	61.21	61.32	61.6	62.1	62.6	61.96	62.38	62.67	62.89	63.34	63.56
630	55.86	61.62	62.8	62.36	62.39	62.9	63.43	63.08	63.46	63.96	64.13	64.07	64.76
800	56.24	61.72	62.61	62.71	63.11	63.49	63.96	63.82	64.28	64.82	64.76	64.99	65.16
1000	56.42	62.31	62.09	62.81	62.94	63.35	63.85	64.71	64.99	64.61	64.75	65.34	65.52
1300	55.67	61.11	61.77	61.72	62.12	62.73	62.96	63.96	64.32	64.54	64.21	64.49	64.35
1600	53.56	58.34	59.54	59.81	60.44	60.83	61.04	63.24	63.36	63.5	63.64	63.57	63.05
2000	50.07	55.04	56.38	56.84	57.41	57.8	58.15	61.37	61.6	61.65	61.53	61.69	61
2500	45.42	49.92	51.73	52.49	52.91	53.57	54.2	58.56	58.92	58.72	58.66	58.7	57.88
3200	39.01	44.03	46.07	46.84	47.03	48.02	49	54.17	54.58	54.6	54.67	54.55	53.01
4000	30.41	36.06	38.86	39.79	39.49	41.11	42.36	48.84	48.99	49.16	49.18	48.61	47.09
5000	15.47	24.7	28.24	30.24	29.88	31.84	33.33	42.58	42.71	42.23	41.75	41.31	38.38
6300	0	0	0	-1.84	0	10.93	14.74	33.47	33.48	32.76	32.01	30.56	27.67
8000	0	0	0	0	0	0	0	14.1	13.81	9.86	2.96	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	65.64	70.48	71.57	71.79	72.12	72.56	72.86	73.25	73.56	73.76	73.84	74.1	74.17
PNL	75.75	80.8	81.83	82.1	82.56	83.04	83.33	83.71	83.97	84.07	84.09	84.23	83.83

distance: (i	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	
frequency	120	125	130	135	140	145	150	155	160	165	PWL
64	53.85	53.35	53.09	52.81	54.67	53.84	53.05	51.84	50.93	54.38	118.01
80	52.55	52.54	52.49	51.92	53.72	54.49	53.65	52.88	52.22	51.68	117.85
100	54.74	56.17	55.7	54.99	55.91	53.41	53.22	53	52.7	52.19	119
130	57.12	56.45	56.82	55.84	54.67	55.84	55.4	54.61	53.29	51.72	120.58
160	58.22	58.12	58.89	58.31	58.38	54.97	53.97	52.75	52.39	50.48	121.44
200	60.59	60.63	60	59.48	57.98	57.24	55.88	55.21	53.21	50.63	123.63
250	60.1	60.45	60.22	59.1	57.45	56.59	54.76	52.85	50.41	47.26	123.07
320	61.67	61.42	60.75	59.43	57.8	55.82	53.82	51.86	49.19	45.87	124.28
400	62.86	62.25	60.99	59	56.85	55.48	53.32	50.92	48.19	44.53	124.73
500	63.72	63.28	62.29	59.99	57.45	54.95	52.57	49.85	46.67	42.7	125.56
630	65.2	64.64	63.03	60.02	56.48	54.74	52.14	49.3	46.03	41.36	126.55
800	65.04	64.32	62.68	59.75	56.65	53.58	51.09	48.62	45.11	40.02	126.85
1000	65.14	64.5	62.52	59.08	55.53	53.69	50.85	47.78	43.99	38.62	127
1300	64.4	63.81	61.72	58.33	54.59	52.46	49.99	46.95	42.79	37.09	126.21
1600	62.7	61.66	59.81	56.57	53.14	51.32	48.71	45.69	41.27	35.05	124.77
2000	60.26	59.45	57.64	54.08	50.76	50.08	47.14	43.47	38.31	31.41	122.5
2500	56.93	55.69	53.81	50.75	47.45	47.8	44.47	40.17	34.5	26.89	119.19
3200	51.44	50.39	48.76	45.52	41.75	44.14	40.44	35.53	28.68	18.37	114.51
4000	45.53	43.75	41.08	37.25	33.32	37.92	33.7	28.05	17.35	0	108.5
5000	37.32	35.26	32.17	27.5	21.76	29.12	23.24	6.02	0	0	101.09
6300	24.97	21.41	13.84	0	0	10.42	0	0	0	0	90.7
8000	0	0	0	0	0	0	0	0	0	0	89.93
10000	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	74.14	73.64	72.35	70.17	68.25	66.74	65.11	63.55	61.61	60.58	136.3
PNL	83.52	82.81	81.15	78.36	75.53	72.95	70.31	67.26	63.75	59.73	82.12

NASA Lewis Allison AST Jet Noise Test 1996

rdg	224
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1008.59
m01	0.30199
pamb	14.1977
tamb	496.921
rhumid	63.42
winds1	0
nprc	1.741
nprb	1.823
ptc	24 7182
ptb	25.8824
wactc	3.468
wactb	17.729
ttc	1402.34
ttb	504.076
ptmix	25.6919
ttmix	651.039
mixpnd	0.804646
graviup	21338.7
badchan	(13,26)
bkgnd	225
escdate	21.Nov.96
esctime	20:19:57
DADSdate	21.Nov.96
DADStime	20:19:57
blchdate	21.Nov.96
blchtime	20:19:57

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 00:47:38 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.7	74.36	74.89	75.32	75.66	75.99	76.26	76.5	76.73	76.96	77.19	77.48
100	74.5	76.17	77.14	77.65	77.87	77.92	77.92	77.8	77.92	78.01	78.2	78.5
130	74.61	77.51	77.85	77.45	77.12	77	77.13	77.45	77.83	78.16	78.4	78.68
160	76.38	78.86	79.64	79.71	79.68	79.62	79.58	79.59	79.66	79.81	80.05	80.42
200	77.4	79.81	80.51	80.5	80.49	80.51	80.57	80.64	80.73	80.81	80.91	81.09
250	79	81.79	82.36	82.04	81.61	81.36	81.43	81.83	82.4	82.94	83.35	83.58
320	80.3	82.56	83.36	83.46	83.18	83.96	83.36	83.23	83.53	83.99	84.4	84.54
400	80.73	83.62	84.26	84.1	84.18	84.58	84.72	84.9	85.13	85.43	85.8	86.19
500	81.9	85.36	85.88	85.28	85.01	85.65	86.02	86.36	86.71	87.03	87.33	87.7
630	82.64	86.63	87.38	87.04	86.82	86.87	87.12	87.41	87.81	88.39	88.99	89.63
800	84.8	88.21	88.68	88.11	87.98	88.18	88.49	88.92	89.48	90.12	90.84	91.64
1000	85.69	89.93	90.29	89.67	89.6	89.97	90.44	90.88	91.44	92.21	92.96	93.66
1300	86.67	90.77	91.07	90.59	90.68	91.14	91.28	91.6	92.34	93.08	93.67	94.34
1600	87.78	91.75	91.85	91.14	91.34	92.28	92.41	92.41	93.36	94.39	95.24	95.98
2000	87.36	91.82	92.21	91.72	92.05	92.82	92.77	92.92	93.97	94.93	96.19	97.02
2500	86.91	90.99	91.51	91.32	91.71	92.59	92.77	92.84	93.72	94.77	96.32	97.11
3200	86.87	90.12	90.67	91.12	91.75	92.11	92.3	92.68	93.98	94.92	95.75	96.2
4000	86.44	89.73	90.31	90.47	90.91	91.44	91.85	91.75	93.11	94.16	95.88	96.43
5000	85.77	89.01	89.79	89.47	89.58	90.29	90.47	90.7	91.7	92.81	94.84	95.55
6300	85.41	88.2	88.79	88.88	89.09	89.61	89.98	90	90.74	91.85	93.32	94.09
8000	85.03	88.15	88.77	88.68	88.99	89.23	89.89	89.89	90.16	91.18	92.8	93.56
10000	84.03	86.4	86.33	86.47	87.44	87.9	87.35	86.95	87.35	87.75	88.88	89.58
OASPL	97.66	101.24	101.69	101.44	101.68	102.22	102.4	102.56	103.42	104.32	105.45	106.17

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	77.85	78.34	78.96	79.72	80.63	81.71	82.98	84.49	86.25	88.43	91.42	122.85
100	78.93	79.5	80.23	81.09	82.11	83.27	84.61	86.15	87.9	89.98	92.68	124.35
130	79.11	79.76	80.69	81.87	83.21	84.64	86.11	87.64	89.21	90.88	92.77	125.06
160	80.92	81.55	82.32	83.25	84.33	85.51	86.73	87.96	89.13	90.24	91.2	125.81
200	81.41	81.87	82.51	83.29	84.16	85.07	86.01	86.95	87.62	88.6	89.15	125.83
250	83.76	84.3	84.87	85.39	86.24	87.21	88.13	88.9	89.5	89.91	89.75	127.47
320	84.57	85.21	86.12	86.69	86.83	86.73	86.54	86.38	86.23	86.1	85.88	127.61
400	86.59	86.97	87.32	87.45	87.24	87	86.79	86.5	86.09	85.87	85.3	128.62
500	88.22	88.77	89.2	89.19	88.6	87.97	87.33	86.56	85.77	85.2	84.73	129.96
630	90.3	90.7	90.63	90.37	89.03	88.13	87.58	86.76	85.74	84.82	84.2	131.26
800	92.39	92.52	92.01	91.12	90.09	89.27	88.46	87.27	85.96	84.84	84.15	132.72
1000	94.3	94.49	93.78	92.21	90.56	89.41	88.5	87.46	86.41	85.59	85.16	134.38
1300	95.18	95.52	94.24	92.13	90.85	89.86	88.8	87.71	86.7	85.97	85.68	135.13
1600	96.5	96.38	95.03	93.11	91.63	90.48	89.44	88.37	87.39	86.7	86.51	136.2
2000	96.9	96.41	95.16	93.47	92.17	91.14	90.17	89.27	88.34	87.44	87.01	136.72
2500	96.45	95.51	94.47	93.28	92.07	91.03	90.18	89.37	88.61	87.89	87.82	136.48
3200	95.97	95.22	93.95	92.65	91.79	90.82	89.88	89.37	88.89	88.22	88.24	136.06
4000	95.62	94.3	92.93	91.87	91.12	90.15	89.2	88.83	88.02	87.29	87.53	135.54
5000	94.62	93.06	91.77	90.72	89.55	88.56	87.8	87.2	86.58	86.1	86.58	134.43
6300	93.54	92.3	90.91	89.56	88.07	86.79	85.9	85.39	84.71	83.99	84.83	133.39
8000	92.59	91.04	89.59	88.17	86.43	85.12	84.34	83.8	83.05	82.29	82.98	132.72
10000	89.1	87.74	86.48	85.35	83.7	82	80.76	80.2	79.34	78.1	78.57	129.77
OASPL	106.03	105.52	104.53	103.33	102.33	101.58	101.06	100.74	100.59	100.75	101.54	146.26

NASA Lewis Allison AST Jet Noise Test 1996

rdg	224
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	ADV
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1006.59
m01	0.30189
pamb	14.1977
tamb	496.921
rhumid	63.42
winds1	0
nprc	1.741
nprb	1.823
ptc	24.7182
ptb	25.8824
wactc	3.468
wactb	17.729
ttc	1402.34
ttb	504.076
ptmix	25.6919
ttmix	651.039
mixpnd	0.604646
gravixp	21338.7
badchan	(13,26)
bkgnd	225
escdate	21.Nov.96
esctime	20:19:57
DADSdate	21.Nov.96
DADStime	20:19:57
btchdate	21.Nov.96
btchtime	20:19:57

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date Wed Aug 20 00:47:44 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (t	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	52.81	53.25	53.75	56.9	56.25	55.97	55.84	56.46	58.03	57.24	58.75	56.45	58.75	57.81	57.13	56.85	56.76	59.77	58.25	58.03	57.32	56.83	60.82	122.83
80	51.01	55.55	56.34	55.48	56.67	56.7	57.61	57.83	56.42	55.6	57.62	57.13	58.21	58.31	58.39	58.54	58.18	60.96	60.04	59.86	59.75	59.65	59.53	123.83
100	53.58	55.61	56.28	57.46	56.97	58.45	57.77	57.34	57.46	58.48	58.23	59.88	59.63	59.38	60.56	60.53	60.61	61.74	61.24	61.44	61.43	61.14	60.42	125.26
130	54.78	57.35	58.01	58.25	60	60.54	58.92	59.41	58.6	60.02	59.54	60.28	60.13	60.77	60.36	61.05	60.68	60.21	61.8	61.67	60.91	59.71	57.82	125.47
160	55.46	58.86	59.35	59.83	60.07	60.49	61.4	60.37	60.56	59.98	60.66	61.35	60.81	61.84	61.77	62.27	62.08	63.27	60.97	60.47	59.56	58.2	57.03	125.87
200	57.36	60.45	61.98	62.61	62.79	62.98	62.75	61.4	62.48	63.4	63.95	64.18	63.78	64.18	64.76	64.37	63.73	62.17	62.98	62.25	61.57	59.74	56.55	127.83
250	57.43	60.36	61.42	61.56	62.42	63.07	63.64	62.61	62.66	62.81	62.95	63.18	63.63	64.02	64.41	64.41	63.51	62.25	61.12	59.45	57.69	55.38	52.31	127.06
320	57.51	61.68	62.56	62.94	63.07	64.16	64.56	63.99	64.51	64.71	64.89	65.14	65.83	66.05	65.95	65.38	64.09	62.67	60.92	59.14	57.04	54.25	50.89	128.21
400	57.99	62.32	63.63	63.68	64.04	64.67	65.29	65.1	65.61	66.04	66.64	66.9	67.27	67.27	67.11	66	64.08	62.14	60.71	58.64	56.04	53.04	49.31	129.05
500	58.43	63.25	64.43	64.65	64.79	65.26	65.95	65.74	66.14	66.63	67.15	67.71	68.28	68.39	67.61	66.36	64.33	62.65	60.45	58.11	55.13	51.5	47.05	129.65
630	60.25	64.84	65.96	66	66.41	67.13	67.76	66.8	67.51	68.28	69.13	69.89	70.16	70.21	69.31	67.17	64.63	62.18	60.6	57.76	54.34	50.47	45.58	131.12
800	60.27	65.16	66.15	65.99	66.58	67.59	68.09	68.3	69.01	69.62	70.1	70.54	71.14	70.81	68.8	66.16	63.9	61.69	59.9	57.05	53.74	49.69	44.72	131.58
1000	60.62	65.42	66.54	66.6	67.23	68.24	68.67	68.55	69.26	70.02	70.76	71.44	71.84	71.45	69.38	66.55	64.13	61.78	59.17	56.31	52.9	48.82	43.43	132.1
1300	60.57	65.56	66.39	66.33	66.94	68.03	68.34	68.8	69.88	70.8	71.53	72.08	71.94	71.12	69.14	66.34	63.87	61.53	59.16	55.99	52.28	47.96	42.2	132.24
1600	58.93	64.24	65.07	65.12	66.05	67.15	67.38	68.62	69.59	70.56	71.71	71.98	71.07	69.65	67.71	65.4	62.9	60.33	58.84	55.72	51.92	48.94	40.38	131.57
2000	56.64	61.45	62.83	63.51	64.47	65.25	65.47	67.55	68.46	69.2	70.28	70.63	69.64	68	65.92	63.51	61.23	58.58	57.55	54.44	50.48	45.28	38.21	130.04
2500	53.84	58.07	59.58	60.61	61.38	62.28	62.76	65.96	67.09	67.89	68.85	68.79	67.62	65.8	63.37	60.93	58.67	55.79	55.63	52.39	48.31	42.62	34.79	128.02
3200	48.83	53.52	55.25	56.03	56.88	57.75	58.14	62.8	64.05	64.78	65.91	66.18	64.53	62.06	59.53	57.03	54.17	50.96	52.41	48.7	43.93	37.29	28.25	124.72
4000	41.43	46.35	48.35	49.17	50.2	51.32	52.01	58.38	59.18	60.02	61.25	61.28	59.68	57.12	54.31	51.32	47.71	43.8	47.34	42.98	37.23	29.46	15.46	119.69
5000	30.73	35.89	38.38	40.04	41.47	42.64	43.71	52.25	52.88	53.74	54.81	54.81	52.95	50.29	47.16	43.53	39.15	34.24	39.4	34.27	27.05	11.1	0	112.99
6300	0	19.33	23.53	25.51	27.35	29.01	29.58	43.87	44.21	44.74	45.63	45.27	42.86	39.29	35.51	31.05	25.13	15.49	28.73	20.83	0	0	0	103.41
8000	0	0	0	0	0	0	0	29.28	29.06	28.74	28.4	27.07	23.87	18.78	3.78	0	0	0	0	0	0	0	0	86.54
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	70.08	74.49	75.56	75.76	76.29	77.13	77.53	77.94	78.71	79.41	80.17	80.61	80.45	79.88	78.58	76.84	75.08	73.78	72.62	71.2	69.78	68.23	67.22	141.62
PNL	81.11	85.86	86.94	87.2	87.95	88.89	89.22	89.58	90.4	91.1	92	92.38	91.67	90.48	88.76	86.7	84.57	82.4	80.1	77.37	74.05	70.5	66.44	88.76

50%L, 12TH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	396
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	586.26
m01	0.0027
pamb	14.321
tamb	500.875
rhumid	78.44
winds1	0
nprc	1.171
nprb	1.218
ptc	16.7699
ptb	17.4143
wacic	1.956
wactb	9.218
ttc	1102.99
ttb	496.842
ptmix	17.3015
ttmix	602.939
mixpnd	0.486978
grsvixp	6551.46
badchan	[26]
bkgnd	390
escdate	03.Dec.96
esctime	19:39:29
DADSdate	03.Dec 96
DADStime	19:39:29
btchdate	03.Dec.96
btchtime	19:39:29

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:21:00 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.53	62.32	63.09	63.84	64.57	65.29	66	66.7	67.39	68.07	68.75	69.42	70.09	70.78	71.44	72.12	72.81	73.51	74.21	74.94	75.67	76.43	0	113.04
100	61.29	62.35	63.3	64.15	64.93	65.67	66.37	67.06	67.78	68.47	69.2	69.96	70.73	71.5	72.24	72.94	73.57	74.11	74.53	74.81	74.94	74.9	0	113.3
130	63.53	64.48	65.16	65.63	65.95	66.19	66.4	66.64	66.99	67.49	68.2	69.16	70.28	71.46	72.6	73.6	74.37	74.94	75.47	76.12	76.48	75.39	0	113.81
160	64.02	65.02	65.89	66.65	67.31	67.92	68.47	69.01	69.53	70.08	70.67	71.31	72	72.73	73.47	74.2	74.91	75.55	75.88	76.07	75.68	74.7	0	114.67
200	65.94	67.11	68.08	68.82	69.42	69.9	70.3	70.66	71.02	71.41	71.87	72.4	72.98	73.57	74.11	74.57	74.9	75.03	74.93	74.56	73.9	72.99	0	115.08
250	68.56	69.95	71.02	71.83	72.44	72.91	73.27	73.59	73.91	74.28	74.75	75.34	75.98	76.58	77.07	77.38	77.46	77.25	76.64	75.5	73.79	71.52	0	117.63
320	67.88	69.36	70.49	71.36	71.99	72.41	72.71	72.98	73.24	73.68	74.31	75.24	76.3	77.34	78.17	78.61	78.51	77.85	76.81	75.55	74.29	73.31	0	117.9
400	67.51	69.64	71.38	72.73	73.66	74.26	74.75	75.26	75.84	76.44	77.11	77.75	78.17	78.48	78.64	78.46	77.98	77.09	75.95	74.65	73.37	72.35	0	118.94
500	68.3	70.41	72.02	73.2	74.03	74.62	75.07	75.5	75.97	76.51	77.15	77.87	78.59	79.23	79.88	79.78	79.51	78.71	77.45	76.06	74.62	72.98	0	119.64
630	68.22	70.85	72.77	74.02	74.87	75.52	76.04	76.49	76.91	77.36	77.86	78.44	79	79.43	79.58	79.37	78.68	77.55	76.24	74.98	73.66	72.62	0	119.83
800	69.19	72.75	74.57	75.17	75.35	75.67	76.16	76.75	77.42	78.12	78.82	79.5	80.01	80.15	79.89	79.35	78.5	77.32	75.94	74.43	72.83	71.13	0	120.33
1000	69.04	72.64	74.35	75.19	75.47	75.9	76.47	77.09	77.7	78.28	78.85	79.41	79.81	80	79.92	79.55	78.78	77.39	75.58	73.57	71.62	70.05	0	120.38
1300	69.34	73.33	75.2	75.74	75.86	76.2	76.75	77.39	77.94	78.41	78.81	79.08	79.42	79.82	79.86	79.16	78.11	76.34	74.19	72.02	69.97	68.29	0	120.27
1600	69.08	73.26	75.08	75.55	75.68	76.12	76.6	77.44	77.98	78.49	78.91	79.25	79.81	79.9	79.82	78.96	77.59	75.57	73.31	71.03	68.77	66.86	0	120.21
2000	68.84	73.32	75.09	75.48	75.44	75.72	76.44	77.29	77.82	78.23	78.72	78.63	78.96	79.55	79.58	78.54	76.69	74.32	72.02	69.94	67.35	65	0	119.83
2500	68.57	72.83	74.14	74.65	74.86	75.17	75.98	76.7	77.09	77.43	78.06	78.14	78.47	79.33	79.24	77.71	75.55	73.05	70.83	68.34	65.85	63.66	0	119.21
3200	67.57	72.23	73.33	73.89	74.29	74.53	75.13	75.89	76.43	76.71	77.04	77.38	77.7	78.14	78.04	76.73	74.71	72.14	69.82	67.26	64.02	61.87	0	118.34
4000	67.33	71.12	72.32	72.87	73.04	73.28	74.21	74.86	75.35	75.94	76.57	76.49	76.41	76.57	76.58	75.44	73.51	70.79	68.16	65.56	62.36	60.05	0	117.24
5000	65.92	70.08	71.26	71.43	71.37	71.79	72.82	73.64	74.25	74.94	75.57	75.16	74.83	74.69	74.75	73.89	72.2	69.38	66.8	64.24	60.32	58.41	0	115.85
6300	65.64	69.18	70.06	70.34	70.36	70.72	71.81	72.9	73.43	73.89	74.33	73.96	73.61	73.57	73.3	72.35	70.87	68.44	65.9	62.8	58.61	56.76	0	114.75
8000	64.66	68.16	69.35	69.91	70.07	70.33	71.56	72.6	73.12	73.54	74.19	73.78	72.88	72.58	72.22	71.36	70.06	67.78	65.24	61.78	57.39	55.75	0	114.24
10000	61.98	65.5	66.69	68.46	69.39	69.04	69.35	70.37	71.02	71.19	72.35	70.92	69.97	70.29	70.66	69.58	67.78	65.34	62.6	59.22	55.67	53.76	0	112.14
OASPL	80.6	83.87	85.36	86.06	86.41	86.81	87.43	88.07	88.58	89.07	89.63	89.95	90.32	90.75	90.87	90.45	89.69	88.65	87.58	86.58	85.64	84.89	0	131.31

NASA Lewis Allison AST Jet Noise Test 1996

rdg 396
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 586.26
m01 0.0027
pamb 14.321
tamb 500.875
rhumid 78.44
winds1 0
nprc 1.171
nprb 1.216
ptc 16.7699
ptb 17.4143
wactc 1.956
wactb 9.219
ttc 1102.99
ttb 496.842
ptmix 17.3015
ttmix 602.839
mixpnd 0.486978
grsvtep 6551.46
badchan (26)
bkgnd 390
escdate 03.Dec.96
esctime 19:39:29
DADSdate 03.Dec.96
DADStime 19:39:29
bichdate 03.Dec.96
bichtime 19:39:29
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:21:10 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	39.74	41.02	42.18	43.25	44.23	45.12	45.93	46.66	47.31	47.99	48.4	48.83	49.19	49.47	49.66	49.75	49.74	49.6	49.31	48.83	48.09	46.98	0	112.97
100	39.47	41.02	42.38	43.53	44.56	45.46	46.27	46.99	47.65	48.26	48.82	49.34	49.8	50.17	50.42	50.53	50.48	50.16	49.57	48.64	47.28	45.38	0	113.19
130	41.88	43.1	44.18	44.97	45.53	45.94	46.25	46.53	46.64	47.24	47.78	48.5	49.3	50.08	50.73	51.13	51.19	50.91	50.43	49.86	48.71	45.71	0	113.63
160	42.06	43.56	44.83	45.91	46.83	47.6	48.26	48.83	49.32	49.76	50.18	50.58	50.95	51.27	51.51	51.65	51.64	51.42	50.83	49.68	47.75	44.82	0	114.41
200	43.86	45.53	46.89	47.98	48.83	49.48	49.99	50.39	50.71	51	51.28	51.56	51.82	51.99	52.03	51.88	51.48	50.74	49.59	47.95	45.73	42.82	0	114.7
250	46.3	48.2	49.69	50.83	51.69	52.33	52.81	53.16	53.44	53.7	54	54.34	54.64	54.82	54.79	54.48	53.82	52.72	51.04	48.58	45.23	40.87	0	117.08
320	45.37	47.37	48.95	50.18	51.04	51.65	52.08	52.34	52.59	52.9	53.38	54.05	54.77	55.38	55.68	55.48	54.61	53.02	50.88	48.23	45.25	42.07	0	117.09
400	44.85	47.33	49.51	51.21	52.4	53.18	53.79	54.34	54.88	55.38	55.88	56.23	56.29	56.14	55.78	54.94	53.62	51.78	49.48	46.73	43.63	40.22	0	117.82
500	45.01	47.7	49.77	51.32	52.43	53.21	53.78	54.24	54.67	55.09	55.53	55.97	56.32	56.48	56.34	55.77	54.64	52.82	50.31	47.37	43.97	39.71	0	118.06
630	44.4	47.85	50.05	51.7	52.84	53.7	54.34	54.83	55.21	55.54	55.83	56.12	56.29	56.23	55.77	54.81	53.23	51.01	48.37	45.42	41.98	38.07	0	117.82
800	44.83	49.02	51.38	52.37	52.86	53.4	54.01	54.65	55.26	55.85	56.34	56.71	56.82	56.44	55.53	54.21	52.42	50.09	47.29	43.99	40.09	35.24	0	117.86
1000	44.11	48.28	50.63	51.91	52.51	53.18	53.87	54.54	55.1	55.55	55.88	56.12	56.09	55.75	55	53.8	52.04	49.43	46.11	42.2	37.75	32.74	0	117.37
1300	43.83	48.52	50.95	51.93	52.4	52.97	53.66	54.34	54.86	55.19	55.35	55.28	55.17	55.01	54.34	52.79	50.66	47.58	43.83	39.61	34.88	29.51	0	116.77
1600	42.86	47.79	50.21	51.16	51.64	52.32	53.14	53.84	54.33	54.7	54.87	54.86	54.75	54.43	53.58	51.82	49.34	45.93	41.93	37.45	32.32	26.4	0	116.12
2000	41.78	47.03	49.44	50.34	50.67	51.21	52.08	52.98	53.46	53.72	53.94	53.49	53.34	53.26	52.5	50.48	47.42	43.58	39.37	34.9	29.14	22.34	0	114.99
2500	40.25	45.41	47.43	48.48	49.09	49.67	50.63	51.44	51.77	51.92	52.27	51.98	51.78	51.9	50.93	48.35	44.88	40.7	36.2	31.25	25.2	18.34	0	113.31
3200	37.45	43.08	45	46.18	47.02	47.57	48.37	49.2	49.66	49.74	49.74	49.81	49.38	49.04	47.97	45.43	41.91	37.47	32.78	27.17	18.59	0	0	110.88
4000	34.46	39.46	41.55	42.78	43.47	44.08	45.25	45.94	46.38	46.74	46.99	46.43	45.64	44.91	43.8	41.25	37.54	32.63	27.22	20.06	0	0	0	107.4
5000	28.85	34.47	36.74	37.72	38.29	39.15	40.44	41.33	41.84	42.28	42.49	41.44	40.09	39.08	37.79	35.21	31.3	25.87	17.04	0	0	0	0	102.39
6300	20.05	27.16	29.47	30.82	31.65	32.56	33.94	35.14	35.56	35.73	35.64	34.47	33.07	31.69	29.67	26.36	20.92	2.27	0	0	0	0	0	95.52
8000	0	0	16.01	19.7	21.43	22.81	24.99	26.39	26.81	26.8	26.69	25.08	22.08	18.94	12.27	0	0	0	0	0	0	0	0	85.69
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	55.72	58.99	61.05	62.25	63.01	63.88	64.34	64.93	65.4	65.77	66.12	66.33	66.46	66.44	66.07	65.24	64.03	62.45	60.65	58.68	56.45	53.86	0	128.38
PNL	63.9	68.41	70.55	71.72	72.43	73.09	73.98	74.69	75.1	75.38	75.7	75.58	75.46	75.4	74.88	72.92	70.58	67.91	65.04	61.7	57.86	52.85	0	73.75

NASA Lewis Allison AST Jet Noise Test 1996

rdg	397
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	848.37
m01	0.00461
pamb	14.3222
tamb	500.709
rhumid	79.34
winds1	0
nprc	1.395
nprb	1.448
ptc	19.9795
ptb	20.7385
wactc	3.221
wactb	13.139
ttc	1163.26
ttb	495.637
ptmix	20.5691
ttmix	627.06
mixpnd	0.691002
grsvixp	13679.3
badchan	[26]
bkgnd	390
escdate	03.Dec.96
esctime	19:47:53
DADSdate	03.Dec.96
DADStime	19:47:53
btchdate	03.Dec.96
btchtime	19:47:53

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:23:55 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90
roll angle (	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90
80	70.05	70.91	71.82	72.76	73.71	74.64	75.54	76.38
100	72.45	73.46	74.23	74.79	75.22	75.57	75.89	76.24
130	72.88	73.24	73.51	73.74	74	74.34	74.77	75.29
160	74.52	75.31	75.93	76.43	76.85	77.21	77.56	77.94
200	75.59	76.32	76.92	77.41	77.83	78.22	78.6	79.01
250	76.11	77.04	77.85	78.57	79.24	79.85	80.33	80.61
320	76.81	77.99	78.92	79.63	80.13	80.46	80.73	81.01
400	76.99	78.49	79.75	80.77	81.57	82.18	82.7	83.21
500	77.85	79.69	80.89	81.68	82.26	82.82	83.37	83.83
630	78.44	80.79	82.2	82.99	83.43	83.78	84.1	84.56
800	79.02	81.86	83.05	83.7	84.07	84.48	84.95	85.51
1000	80.01	83.02	84.21	84.5	84.66	85.02	85.45	86.06
1300	80	82.98	84.27	84.7	84.9	85.28	85.87	86.62
1600	79.97	83.15	84.35	85.01	85.51	85.99	86.39	87.1
2000	79.99	83.19	84.36	84.94	85.37	85.89	86.65	87.39
2500	80.1	83.35	83.97	84.43	85.06	85.64	86.51	87.29
3200	79.17	82.15	83.21	84.09	84.75	85.19	86.04	86.87
4000	78.86	81.26	81.97	82.84	83.62	84.33	85.22	85.76
5000	77.66	80.09	80.73	81.35	82.03	82.71	83.76	84.49
6300	76.47	78.98	79.31	80.32	80.99	81.39	82.55	83.49
8000	74.86	77.39	78.13	79.34	79.99	80.38	81.52	82.27
10000	71.46	73.98	74.85	77.07	76.53	78.32	78.65	79.37
OASPL	91.04	93.55	94.58	95.25	95.77	96.23	96.89	97.52

distance: (	150	150	150	150	150	150	150	150
yaw angle	95	100	105	110	115	120	125	130
roll angle (	0	0	0	0	0	0	0	0
frequency	95	100	105	110	115	120	125	130
80	77.12	77.75	78.24	78.8	78.95	79.41	80.13	81.23
100	76.69	77.28	78.08	79.11	80.35	81.72	83.16	84.8
130	75.89	76.59	77.36	78.23	79.21	80.32	81.57	82.96
160	78.37	78.9	79.56	80.37	81.31	82.33	83.41	84.49
200	79.48	80.02	80.98	81.42	82.29	83.26	84.27	85.28
250	81.07	81.62	81.8	82.98	83.77	84.44	85.33	86.27
320	81.36	81.83	82.44	83.16	83.87	84.64	85.62	86.78
400	83.75	84.33	84.94	85.49	85.87	86.34	86.68	86.72
500	84.18	84.55	85.08	85.8	86.52	87.28	87.95	88.24
630	85.17	85.8	86.4	86.93	87.48	88.1	88.68	88.94
800	86.03	86.48	86.95	87.68	88.78	89.16	89.49	89.63
1000	86.83	87.58	88.23	88.7	89.01	89.38	89.48	89.21
1300	87.13	87.72	88.43	89.04	89.47	89.71	89.58	89.05
1600	87.85	88.08	88.75	89.58	90.1	90.27	89.93	89.05
2000	87.77	88.04	88.67	89.49	89.79	90.03	89.86	88.55
2500	87.72	88.15	88.82	89.13	89.11	89.87	89.36	87.73
3200	87.18	87.48	88.2	88.71	88.63	88.96	88.86	87.07
4000	86.23	86.46	87.23	87.93	87.78	87.54	87.27	85.95
5000	84.83	85.25	85.98	86.63	86.43	85.79	85.24	84.15
6300	83.85	84.1	84.52	85	84.88	84.31	83.64	82.44
8000	82.89	83	83.45	83.86	83.66	82.74	82	81.32
10000	79.93	79.91	80.14	80.27	80.43	79.8	79.39	78.76
OASPL	98.03	98.45	99.08	99.7	100.04	100.34	100.44	100.12

distance: (	150	150	150	150	150	150	150	
yaw angle	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	
frequency	135	140	145	150	155	160	165	PWL
80	82.83	84.89	87.08	89.08	90.53	91.09	0	124.78
100	85.97	87.19	88.19	88.9	89.28	89.26	0	125.39
130	84.5	86.08	87.43	88.26	88.26	87.17	0	124.26
160	85.53	86.49	87.3	87.85	88.06	87.9	0	125.19
200	86.21	86.89	86.96	86.11	84.78	83.54	0	125.19
250	87.04	87.42	87.38	87.13	86.34	84.11	0	126.26
320	87.69	87.88	86.81	85.71	84.45	82.84	0	126.36
400	86.84	86.61	85.92	84.79	83.3	81.55	0	127.21
500	88.15	87.55	86.51	85.15	83.6	81.99	0	128
630	88.72	87.95	86.73	85.21	83.48	81.63	0	128.8
800	89.34	88.5	87.23	85.64	83.79	81.58	0	129.57
1000	88.87	87.98	86.52	84.75	82.66	80.24	0	129.89
1300	88.18	86.95	85.29	83.45	81.56	78.94	0	129.95
1600	87.87	86.38	84.71	83.05	81.2	78.58	0	130.29
2000	87.39	86.1	84.31	82.81	80.72	77.73	0	130.15
2500	86.79	85.42	83.75	82.25	80.45	77.34	0	129.84
3200	86.22	84.92	83.11	81.56	79.91	76.9	0	129.26
4000	84.8	83.07	81.08	79.64	78.2	75.16	0	128.17
5000	83.43	81.57	79.2	77.33	75.13	72.23	0	126.69
6300	81.65	79.91	77.18	74.59	71.87	69.71	0	125.3
8000	80.63	78.69	75.64	72.5	69.56	67.96	0	124.1
10000	77.48	75.21	71.92	68.85	65.96	64.57	0	121.18
OASPL	99.91	99.47	98.88	98.39	97.86	97.01	0	141.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg 397
run 1
test_prog Allison96
test_num 3
test_faci LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
ngbld JER w/ external supplement
mixbld TONG
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 848.37
m01 0.00481
pamb 14.3222
tamb 500.709
rhumid 79.34
winds1 0
nprc 1.395
nprb 1.448
ptc 19.9795
ptb 20.7385
wactc 3.221
wactb 13.139
ttc 1163.26
ttb 495.637
ptmix 20.5891
ttmix 627.08
mixpnd 0.691002
grsvwp 13879.3
badchan (26)
bkgnd 390
escdate 03.Dec.96
esctime 19:47:53
DADSdate 03.Dec.96
DADStime 19:47:53
btchdate 03.Dec.96
btchtime 19:47:53
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:24:04 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.27	49.61	50.92	52.17	53.36	54.47	55.47	56.33	57.04	57.57	57.89	58.01	58.05	58.12	58.35	58.66	59.78	60.98	62.18	62.97	62.94	61.84	0	124.7
100	50.63	52.13	53.29	54.18	54.85	55.38	55.79	56.17	56.58	57.07	57.7	58.5	59.41	60.38	61.34	62.19	62.85	63.23	63.23	62.73	61.62	59.73	0	125.27
130	51.01	51.86	52.52	53.07	53.58	54.09	54.62	55.17	55.75	56.34	58.94	57.57	58.23	58.94	59.7	60.5	61.33	62.06	62.4	62	60.5	57.5	0	124.06
160	52.57	53.85	54.88	55.7	56.36	56.89	57.35	57.76	58.16	58.59	59.08	59.64	60.26	60.87	61.45	61.93	62.26	62.37	62.15	61.45	60.13	58.02	0	124.9
200	53.51	54.75	55.75	56.57	57.24	57.8	58.29	58.74	59.17	59.61	60.08	60.59	61.13	61.69	62.2	62.59	62.79	62.6	61.63	59.51	56.59	53.37	0	124.79
250	53.85	55.29	56.52	57.58	58.49	59.26	59.86	60.18	60.61	61.05	61.06	61.96	62.43	62.68	63.07	63.38	63.4	62.89	61.78	60.22	57.79	53.44	0	125.85
320	54.3	56.01	57.37	58.42	59.18	59.71	60.09	60.4	60.72	61.07	61.5	61.97	62.34	62.87	63.12	63.65	63.79	62.65	60.85	58.37	55.4	51.57	0	125.54
400	54.14	56.18	57.88	59.26	60.32	61.12	61.76	62.3	62.8	63.27	63.69	63.97	63.99	64.01	63.81	63.18	62.51	61.31	59.46	56.69	53.58	49.43	0	126.06
500	54.55	56.96	58.64	59.79	60.65	61.41	62.07	62.57	62.88	63.13	63.46	63.9	64.26	64.55	64.65	64.24	63.31	61.68	59.39	56.49	52.89	48.76	0	126.4
630	54.64	57.59	59.5	60.68	61.41	61.94	62.4	62.91	63.48	63.99	64.39	64.63	64.79	64.91	64.88	64.4	63.28	61.42	58.87	55.69	51.83	47.13	0	126.75
800	54.86	57.93	59.84	60.9	61.58	62.2	62.81	63.41	63.89	64.21	64.46	64.88	65.59	65.44	65.13	64.49	63.25	61.25	58.56	55.18	51.01	45.69	0	126.99
1000	55.06	58.76	60.49	61.21	61.69	62.27	62.84	63.5	64.23	64.84	65.27	65.42	65.3	65.13	64.57	63.49	62.13	59.99	57.04	53.35	48.79	42.92	0	126.84
1300	54.49	58.18	60.03	60.9	61.43	62.02	62.77	63.57	64.04	64.48	64.95	65.22	65.21	64.88	64.04	62.64	60.71	58.19	54.9	51.01	48.43	40.13	0	126.38
1600	53.75	57.67	59.47	60.61	61.46	62.19	62.73	63.5	64.2	64.27	64.7	65.17	65.22	64.79	63.7	61.91	59.61	56.75	53.35	49.48	44.7	38.02	0	126.13
2000	52.88	56.89	58.7	59.78	60.59	61.38	62.29	63.06	63.4	63.51	63.86	64.34	64.14	63.75	62.8	60.48	58.1	55.32	51.64	47.54	42.46	34.98	0	125.23
2500	51.8	55.94	57.25	58.24	59.27	60.14	61.18	62.02	62.39	62.84	63.02	62.93	62.39	62.25	61.08	58.35	56.08	53.07	49.33	45.15	39.74	31.53	0	123.87
3200	49.09	53.06	54.9	56.36	57.47	58.23	59.25	59.95	60.41	60.52	60.91	60.96	60.3	59.86	58.58	55.77	53.45	50.29	46.1	41.47	35.68	26.77	0	121.7
4000	46.05	49.59	51.19	52.75	54.07	55.17	56.23	56.84	57.27	57.28	57.66	57.82	56.96	55.66	54.45	51.69	48.83	44.92	40.12	34.99	28.56	15.84	0	118.26
5000	40.67	44.41	46.14	47.62	48.95	50.09	51.38	52.18	52.43	52.59	52.95	52.96	51.9	50.17	48.31	45.5	42.58	37.99	32.2	25.69	13.76	0	0	113.16
6300	33.04	36.96	38.74	40.63	42.33	43.28	44.76	45.8	46	45.94	45.84	45.57	44.4	42.46	39.89	36.57	32.96	27.65	18.74	0	0	0	0	106.1
8000	19.49	25.64	28.41	31.16	32.9	34	36.54	36.46	36.73	36.84	36.41	35.76	34.19	31.49	28.26	24.11	18.28	0	0	0	0	0	0	98.37
10000	0	0	0	-2.46	14.18	16.61	18.85	20.18	20.76	20.15	19.17	17.08	13.14	0	0	0	0	0	0	0	0	0	0	78.66
OASPL	85.65	88.45	70.07	71.12	71.9	72.58	73.25	73.87	74.38	74.7	75.09	75.43	75.55	75.54	75.29	74.73	74.09	73.17	72	70.66	68.96	66.5	0	137.91
PNL	75.1	78.64	80.18	81.29	82.26	83.06	83.96	84.69	85.12	85.38	85.76	85.91	85.65	85.43	84.64	82.96	81.31	79.15	76.33	73.55	70.21	65.66	0	83.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	398
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	958.56
m01	0.00249
pamb	14.3242
tamb	500.292
rhumid	81.17
winds1	0
nprc	1.542
nprb	1.614
ptc	22.0879
ptb	23.1193
wactc	3.255
wactb	15.421
ttc	1303.3
ttb	496.874
ptmix	22.9395
ttmix	637.424
mixpnd	0.774392
gravixp	17902.1
badchan	(26)
bkgnd	390
escdate	03.Dec.96
esctime	20:03:19
DADSdate	03.Dec.96
DADStime	20:03:19
blchdate	03.Dec.96
blchtime	20:03:19

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 04:27:02 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.3	77.58	78.36	78.73	78.83	78.75	78.61	78.53	78.62	78.99	79.78	80.98	82.59	84.47	86.53	88.68	90.8	92.81	94.59	96.05	97.09	97.61	0	131.28
100	76.28	77.14	77.81	78.34	78.75	79.1	79.44	79.8	80.24	80.8	81.52	82.44	83.58	84.95	86.58	88.49	90.88	93.02	95.13	96.82	97.08	96.14	0	131.35
130	77.28	78.01	78.53	78.9	79.15	79.34	79.53	79.75	80.07	80.52	81.17	82.04	83.17	84.55	86.21	88.15	90.39	92.78	94.91	96.38	96.75	95.81	0	131.08
160	79.12	79.87	80.41	80.79	81.08	81.29	81.52	81.8	82.19	82.72	83.45	84.4	85.57	86.92	88.41	89.96	91.53	93.01	94.25	95.08	95.3	94.77	0	131.13
200	81.12	82.08	82.71	83.13	83.39	83.55	83.67	83.81	84.04	84.43	85.01	85.84	86.85	87.97	89.14	90.29	91.34	92.16	92.46	92.01	91.08	90.14	0	130.39
250	81.25	82.13	82.77	83.21	83.52	83.75	83.98	84.21	84.56	85.07	85.79	86.77	87.9	89.11	90.29	91.38	92.21	92.76	92.93	92.61	91.73	90.23	0	131.09
320	81.05	82.04	82.99	83.83	84.47	84.89	85.18	85.49	85.88	86.3	86.65	87.24	88.46	89.72	90.58	91.59	92.51	92.5	91.71	90.48	89.12	88.3	0	131.08
400	80.84	82.2	83.38	84.42	85.31	86.03	86.59	87	87.37	87.85	88.47	89.24	90.14	91.12	91.98	92.35	92.14	91.71	90.98	89.68	88.37	87.18	0	131.73
500	82.08	83.53	84.68	85.51	86.16	86.68	87.11	87.5	87.88	88.34	88.93	89.68	90.57	91.52	92.41	92.97	92.93	92.3	91.31	90.17	88.85	87.13	0	132.28
630	82.04	84.01	85.34	86.3	87.01	87.46	87.75	88.04	88.45	89	89.67	90.39	91.16	92.03	92.75	93.07	92.99	92.46	91.55	90.29	88.72	86.95	0	132.69
800	83.51	85.52	86.54	87.08	87.48	88.05	88.67	89.31	89.98	90.65	91.3	91.91	92.53	93.18	93.68	93.85	93.61	92.95	91.92	90.5	88.69	86.54	0	133.67
1000	83.97	86.44	87.52	87.9	88.21	88.79	89.52	90.23	90.8	91.28	91.73	92.18	92.77	93.58	93.98	93.72	93.14	92.37	91.34	90.03	88.48	86.28	0	133.94
1300	84.42	86.54	87.57	88.18	88.66	89.19	89.66	90.05	90.55	91.29	92.08	92.75	93.1	93.77	94.35	93.8	92.83	91.92	91.03	89.81	87.93	85.22	0	134.04
1600	84.46	86.92	87.79	88.36	88.83	89.38	90.08	90.73	91.44	92	92.63	93.34	93.68	94.48	94.84	93.66	92.56	91.71	90.83	89.61	87.62	84.59	0	134.4
2000	84.97	87.23	87.84	88.43	89.24	89.86	90.47	91.04	91.56	92.06	92.97	93.8	94.11	94.75	94.78	93.51	92.29	91.38	90.59	89.5	87.47	84.16	0	134.58
2500	84.53	87.32	87.83	88.4	89.11	89.52	90.39	90.96	91.57	92.19	93.02	93.67	94.18	94.78	94.62	93.36	92.02	90.87	90.15	89.23	87.45	84.26	0	134.48
3200	83.84	86.55	87.48	88.11	88.75	89.54	90.31	90.61	91.15	91.85	92.52	93.4	93.7	94.19	94.28	92.85	91.8	90.66	90.21	89.7	87.78	84.29	0	134.13
4000	83.67	85.56	86.12	86.97	87.86	88.57	89.5	89.72	90.12	91.04	91.89	92.67	92.59	92.85	93.32	91.86	90.65	89.55	89	88.61	86.98	84.15	0	133.18
5000	82.43	84.55	85.12	85.55	86.09	87.14	88.22	88.59	88.9	89.7	90.62	91.37	91.39	91.68	91.72	90.45	89.03	87.6	87.25	86.41	83.88	81.72	0	131.78
6300	80.98	83.31	83.93	84.37	85	85.98	86.98	87.52	87.91	88.69	89.35	89.87	90.16	90.28	90.09	88.97	87.26	85.36	85.28	83.04	79.8	79.06	0	130.39
8000	79.86	82.13	82.8	83.35	83.91	84.82	86.11	86.52	86.79	87.47	88.22	88.71	88.76	88.58	88.19	87.54	86.01	84.12	83.63	80.13	75.51	74.92	0	129.07
10000	78.74	78.26	79.11	80.58	81.92	82.48	82.86	83.21	83.63	84.09	84.53	84.8	85.13	85.57	85.63	84.84	82.95	80.59	79.72	78.37	70.83	69.77	0	125.86
OASPL	95.58	97.59	98.42	99.04	99.64	100.23	100.89	101.34	101.83	102.45	103.16	103.87	104.34	105.01	105.45	105.17	104.94	104.86	105.02	106.04	104.68	103.74	0	145.82

NASA Lewis Allison AST Jet Noise Test 1996

rdg	398
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	958.56
m01	0.00249
pamb	14.3242
tamb	500.292
rhumid	81.17
winds1	0
nprc	1.542
nprb	1.614
ptc	22.0879
ptb	23.1193
wactc	3.255
wactb	15.421
ttc	1303.3
ttb	496.874
ptmix	22.9395
ttmix	637.424
mxpnd	0.774392
grsvbp	17902.1
badchan	(26)
bkgnd	390
escdate	03.Dec.96
esctime	20:03:19
DADSdate	03.Dec.96
DADStime	20:03:19
btchdate	03.Dec.96
btchtime	20:03:19

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:27:12 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	54.51	56.28	57.46	58.15	58.48	58.57	58.54	58.49	58.55	58.82	59.42	60.4	61.69	63.17	64.75	66.31	67.73	68.9	69.68	69.94	69.51	68.16	0	131.2
100	54.46	55.81	56.68	57.72	58.37	58.9	59.33	59.73	60.14	60.59	61.14	61.82	62.64	63.62	64.76	66.08	67.56	69.06	70.17	70.44	69.42	66.6	0	131.21
130	55.4	56.63	57.56	58.23	58.73	59.09	59.38	59.64	59.92	60.27	60.75	61.38	62.19	63.17	64.33	65.68	67.21	68.75	69.88	70.12	68.98	65.93	0	130.85
160	57.16	58.42	59.36	60.06	60.57	60.97	61.3	61.62	61.97	62.4	62.98	63.67	64.52	65.46	66.45	67.41	68.26	68.89	69.1	68.68	67.37	64.89	0	130.82
200	59.04	60.49	61.55	62.3	62.8	63.13	63.35	63.54	63.73	64.01	64.43	65.01	65.69	66.4	67.07	67.61	67.93	67.88	67.12	65.4	62.88	59.96	0	129.98
250	58.99	60.38	61.44	62.21	62.77	63.16	63.49	63.78	64.09	64.49	65.05	65.77	66.57	67.38	68.03	68.48	68.58	68.24	67.34	65.71	63.19	59.58	0	130.46
320	58.54	60.06	61.44	62.62	63.52	64.12	64.52	64.86	65.22	65.53	65.7	66.04	66.92	67.75	68.06	68.45	68.61	67.67	65.74	63.11	60.07	57.08	0	130.21
400	57.99	59.89	61.52	62.91	64.08	64.97	65.64	66.1	66.43	66.8	67.23	67.73	68.27	68.8	69.12	68.82	67.81	66.41	64.51	61.77	58.83	55.03	0	130.54
500	58.77	60.82	62.41	63.63	64.56	65.27	65.82	66.24	66.58	66.92	67.31	67.79	68.3	68.79	69.12	68.98	68.1	66.45	64.21	61.53	58.24	53.9	0	130.65
630	58.23	60.81	62.83	63.99	64.98	65.84	66.04	66.36	66.75	67.18	67.65	68.07	68.45	68.63	68.95	68.53	67.55	65.93	63.69	60.76	57.06	52.42	0	130.57
800	59.16	61.8	63.34	64.26	64.99	65.78	66.52	67.2	67.84	68.39	68.82	69.12	69.34	69.46	69.33	68.72	67.52	65.71	63.24	60.04	55.93	50.67	0	131.08
1000	59.04	62.17	63.8	64.82	65.25	66.06	66.92	67.67	68.19	68.54	68.77	68.89	69.07	69.34	69.07	67.99	66.4	64.39	61.84	58.61	54.56	48.98	0	130.83
1300	58.88	61.71	63.32	64.37	65.19	65.95	66.55	66.99	67.45	68.05	68.57	68.92	68.83	68.94	68.82	67.41	65.37	63.15	60.67	57.39	52.82	46.4	0	130.38
1600	58.24	61.45	62.92	63.96	64.78	65.57	66.4	67.12	67.79	68.2	68.57	68.94	68.82	68.99	68.61	66.53	64.3	62.06	59.43	56	51.09	44.02	0	130.15
2000	57.87	60.95	62.19	63.27	64.46	65.34	66.11	66.74	67.21	67.55	68.19	68.64	68.44	68.46	67.67	65.44	63	60.58	57.91	54.41	49.17	41.37	0	129.53
2500	58.22	58.88	61.09	62.19	63.32	64.02	65.04	65.67	66.23	66.66	67.21	67.47	67.42	67.32	66.29	63.97	61.31	58.61	55.69	52.07	46.69	38.41	0	128.35
3200	53.74	57.43	59.16	60.38	61.47	62.56	63.53	63.9	64.37	64.87	65.21	65.86	65.37	65.09	64.19	61.53	58.81	56.02	53.16	49.56	43.49	34.03	0	126.37
4000	50.75	53.86	55.35	56.92	58.33	59.38	60.52	60.79	61.13	61.84	62.31	62.55	61.8	61.18	60.51	57.7	54.66	51.4	48.07	43.98	37.38	27.3	0	122.98
5000	45.58	48.99	50.59	51.83	53	54.49	55.81	56.26	56.52	57.08	57.57	57.67	56.79	56.01	54.77	51.77	48.17	44.06	40.24	35	26.13	5.15	0	117.94
6300	37.36	41.35	43.35	44.9	46.35	47.83	49.12	49.8	50.16	50.6	50.65	50.32	49.67	48.44	46.49	43.13	38.58	33.22	28.72	19.24	0	0	0	110.85
8000	25.83	30.84	33.33	35.25	36.83	38.42	40.2	40.76	40.84	41.16	41.21	40.67	39.34	37.33	34.84	30.98	25.4	16.87	0	0	0	0	0	101.07
10000	0	0	7.27	16.53	21.04	23.06	24.56	25.25	25.49	25.4	24.88	23.46	21.66	18.1	9.25	0	0	0	0	0	0	0	0	84.51
OASPL	70.12	72.49	73.91	74.94	75.79	76.51	77.16	77.65	78.1	78.52	78.96	79.36	79.61	79.96	80.04	79.63	79.2	78.75	78.24	77.42	75.93	73.34	0	142.68
PNL	79.68	82.76	84.15	85.26	86.31	87.1	87.97	88.51	88.98	89.43	89.91	90.23	90.26	90.31	89.81	88.29	86.54	84.67	82.61	80.07	77.02	72.79	0	88.7

NASA Lewis Allison AST Jet Noise Test 1996

rdg	399
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1027.16
m01	0.00241
pamb	14.3272
tamb	499.749
rhumid	79.15
winds1	0
nprc	1.747
nprb	1.815
ptc	25.0296
ptb	26.0039
wacic	3.704
wactb	17.39
ttc	1401.84
ttb	501.553
ptmix	25.8328
ttmix	659.639
mixpnd	0.81572
grsvlxp	21666.9
badchan	(07.26)
bkgnd	390
escdate	03.Dec.96
esctime	20:21:51
DADSdate	03.Dec.96
DADStime	20:21:51
btchdate	03.Dec.96
btchtime	20:21:51

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 04:30:07 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	79.08	79.9	80.54	81.05	81.48	81.65	82.23	82.64	83.13	83.74	84.52	85.5	86.74	88.28	90.11	92.33	94.96	97.83	100.49	102.45	103.2	102.27	0	136.6
100	81.23	81.79	82.17	82.44	82.65	82.86	83.1	83.43	83.86	84.46	85.29	86.38	87.81	89.63	91.84	94.42	97.39	100.54	103.08	104.08	103.56	102.29	0	138.12
130	82.51	82.97	83.25	83.39	83.45	83.49	83.56	83.72	84.03	84.54	85.31	86.38	87.77	89.49	91.55	93.95	96.7	99.58	102.03	103.45	103.27	100.88	0	137.43
160	83.84	84.5	85.05	85.51	85.9	86.27	86.62	87	87.42	87.91	88.51	89.23	90.15	91.31	92.78	94.82	96.89	99.42	101.57	102.67	102.59	101.43	0	137.47
200	84.43	85.4	86.06	86.49	86.76	86.94	87.09	87.29	87.6	88.09	88.65	89.89	91.18	92.64	94.17	95.71	97.2	98.53	99.43	99.57	99.06	98.27	0	136.18
250	84.28	85.31	86.04	86.53	86.86	87.1	87.33	87.63	88.05	88.68	89.58	90.79	92.22	93.76	95.32	96.77	98	98.88	99.25	98.94	97.8	95.73	0	136.33
320	84.3	84.98	85.55	86.09	86.65	87.23	87.78	88.24	88.7	89.33	90.13	91.11	92.3	93.69	95.2	96.59	97.56	98	97.79	96.83	94.95	93.67	0	135.63
400	84.69	85.72	86.57	87.34	88.08	88.8	89.5	90.16	90.78	91.4	92.06	92.86	93.87	94.95	96.14	97.18	97.36	97.18	96.43	95.27	93.98	92.55	0	136.02
500	85.02	86.18	86.97	87.83	88.28	88.93	89.58	90.26	90.92	91.5	92.12	92.92	93.92	95.12	96.38	97.25	97.33	96.85	96.19	95.09	93.73	92.24	0	136.04
630	86.22	87.75	88.86	89.24	89.67	90.05	90.47	91.03	91.64	92.06	92.7	93.76	95.15	96.5	97.49	97.98	97.84	97.05	95.88	94.6	93.2	91.38	0	136.73
800	87.55	88.68	89.11	89.35	89.74	90.33	91.11	91.98	92.74	93.45	94.21	95.02	95.74	96.53	97.36	97.86	97.81	97.32	96.52	95.16	93.48	91.88	0	137.16
1000	87.77	89.24	89.58	89.73	90.17	90.85	91.66	92.47	93.21	93.91	94.58	95.29	96.18	97.11	97.76	97.81	97.51	97.01	96.24	95.02	93.58	91.62	0	137.36
1300	88.59	89.99	90.35	90.51	90.9	91.53	92.31	93.12	93.83	94.48	95.3	96.24	97.03	97.61	97.85	98.22	98.04	97.37	96.45	95.11	93.23	90.84	0	137.87
1600	88.66	90.51	91.15	91.34	91.56	91.99	92.53	93.29	94.31	94.96	96.01	97.17	97.78	98.2	98.11	98	97.59	96.94	95.95	94.66	92.8	90.15	0	138.14
2000	88.74	90.59	91.17	91.39	91.78	92.47	93.39	94.09	94.66	95.35	96.58	97.64	98.37	98.67	97.94	97.77	97.11	96.19	95.93	95.06	92.56	89.6	0	138.35
2500	88.56	90.73	91.22	91.36	91.81	92.54	93.5	94.45	95.03	95.56	96.78	97.94	98.59	98.87	98.12	97.51	96.49	95.47	95.32	95.07	93.67	91.17	0	138.42
3200	88.28	90.66	91.3	91.34	91.62	92.59	94.09	94.95	95.66	96.26	97.46	98.78	99.31	99.56	98.82	98.18	96.97	95.12	95.61	96.15	94.62	92.05	0	139
4000	87.64	90.31	90.78	90.88	90.99	92.21	93.95	94.7	95.77	96.55	98	99.67	100.21	99.69	98.97	98.14	96.61	94.91	94.95	95.44	94.33	92.28	0	139.18
5000	86.92	90.04	90.54	90.23	90.34	91.41	93.23	94.24	95.19	95.85	97.61	99.72	99.91	98.61	98.02	97.22	95.59	93.7	93.25	92.88	92.06	90.03	0	138.5
6300	86.38	89.92	90.27	89.67	89.65	91	93.07	93.6	94.66	95.41	96.92	98.66	99	98.42	97.26	95.84	94.14	92.35	91.41	90.14	88.51	88.79	0	137.67
8000	85.76	89.69	90.41	89.58	88.99	90.6	93.51	93.29	93.99	94.68	96.62	98.56	97.96	97.06	96.1	94.99	93.15	90.94	89.54	88.07	86.14	84.21	0	136.96
10000	82.92	86.32	87.31	87.4	87.75	89.3	91.2	90.98	91.87	91.8	93.62	95.01	95.2	94.89	94.08	92.53	90.11	87.5	85.74	84.45	82.27	79.8	0	134.33
OASPL	99.7	101.68	102.25	102.34	102.64	103.43	104.63	105.26	106.02	106.65	107.86	109.23	109.77	109.97	109.99	110.15	110.21	110.5	111.25	111.82	111.09	109.55	0	150.83

NASA Lewis Allison AST Jet Noise Test 1996

rdg 399
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbid NATR full wedge
rigbid JER w/ external supplement
mixbid TONG
nozbid SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 1027.16
m01 0.00241
pamb 14.3272
tamb 499.749
rhumid 79.15
winds1 0
nprc 1.747
nprb 1.815
ptc 25.0296
ptb 26.0039
wactc 3.704
wactb 17.39
ttc 1401.84
ttb 501.553
ptmix 25.8328
ttmix 659.639
mixpnd 0.81572
grsvlxp 21666.9
badchan (07,28)
bkgnd 390
escdate 03.Dec.96
esctime 20:21:51
DADSdate 03.Dec.96
DADStime 20:21:51
blchdate 03.Dec.96
blchtime 20:21:51
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:30.17 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	57.3	58.6	58.64	60.47	61.13	61.88	62.15	62.58	63.05	63.56	64.17	64.92
100	59.41	60.45	61.23	61.82	62.28	62.65	63	63.38	63.77	64.27	64.91	65.76
130	60.63	61.59	62.26	62.72	63.03	63.24	63.41	63.61	63.89	64.29	64.89	65.72
160	61.88	63.04	63.99	64.77	65.42	65.95	66.41	66.82	67.21	67.6	68.02	68.5
200	62.35	63.82	64.9	65.88	66.18	66.53	66.78	67.01	67.29	67.68	68.26	69.06
250	62.02	63.57	64.71	65.53	66.11	66.53	66.87	67.2	67.59	68.11	68.84	69.79
320	61.6	63.01	64.01	64.89	65.71	66.47	67.12	67.62	68.05	68.57	69.19	69.91
400	61.82	63.4	64.7	65.82	66.83	67.74	68.54	69.24	69.83	70.34	70.81	71.34
500	61.73	63.46	64.72	65.75	66.67	67.52	68.29	69	69.63	70.08	70.5	71.02
630	62.41	64.54	65.95	66.92	67.64	68.22	68.77	69.36	69.93	70.24	70.68	71.44
800	63.19	64.96	65.9	66.55	67.24	68.05	68.98	69.87	70.6	71.17	71.72	72.22
1000	62.83	64.97	65.85	66.43	67.2	68.11	69.05	69.91	70.61	71.17	71.61	72.01
1300	63.05	65.16	66.1	66.7	67.42	68.28	69.21	70.07	70.73	71.24	71.83	72.42
1600	62.47	65.03	66.27	66.94	67.51	68.19	68.88	69.87	70.64	71.15	71.97	72.77
2000	61.66	64.29	65.51	66.23	67	67.94	69.01	69.78	70.31	70.84	71.82	72.5
2500	60.26	63.29	64.48	65.18	66.03	67.03	68.15	69.15	69.67	70.02	70.98	71.74
3200	58.18	61.52	62.82	63.58	64.33	65.83	67.31	68.22	68.84	69.28	70.15	71.04
4000	54.76	58.54	59.94	60.55	61.42	62.99	64.92	65.75	66.73	67.27	68.35	69.47
5000	49.87	54.3	55.92	56.48	57.21	58.72	60.8	61.93	62.78	63.19	64.48	65.93
6300	42.61	47.87	49.59	50.08	50.93	52.82	55.15	55.85	56.75	57.19	58.18	59.12
8000	32.09	38.38	40.8	41.37	41.87	44.08	47.31	47.44	47.92	48.28	49.54	50.46
10000	0	20.01	24.18	25.96	27.5	30.5	33.48	33.07	34.04	33.56	34.24	34.3
OASPL	73.99	75.94	77.05	77.81	78.53	79.3	80.13	80.63	81.44	81.92	82.59	83.29
PNL	83.77	86.46	87.69	88.42	89.21	90.2	91.36	92.17	92.81	93.26	94.09	94.92

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	65.83	66.96	68.32	69.98	71.88	73.93	75.59	76.34	75.61	72.82	0	136.51
100	66.88	68.3	70.01	72.01	74.28	76.59	78.12	77.91	75.9	72.76	0	137.98
130	66.79	68.1	69.67	71.48	73.52	75.58	76.99	77.19	75.5	71.19	0	137.2
160	69.09	69.85	70.82	72.06	73.63	75.3	76.42	76.28	74.66	71.55	0	137.14
200	70.02	71.06	72.09	73.02	73.78	74.24	74.1	72.98	70.9	68.11	0	135.73
250	70.89	72.01	73.06	73.69	74.38	74.37	73.66	72.04	69.27	65.09	0	135.67
320	70.77	71.73	72.71	73.45	73.65	73.16	71.82	69.3	65.92	62.44	0	134.72
400	72.01	72.63	73.27	73.64	73.02	71.86	69.96	67.38	64.28	60.45	0	134.77
500	71.65	72.39	73.08	73.26	72.49	70.99	69.07	66.42	63.11	59	0	134.34
630	72.44	73.3	73.69	73.44	72.4	70.52	68.01	65.06	61.53	58.66	0	134.55
800	72.53	72.81	73.01	72.72	71.73	70.08	67.86	64.73	60.73	55.98	0	134.44
1000	72.47	72.86	72.84	72.08	70.78	69.05	66.75	63.6	59.66	54.32	0	134.12
1300	72.77	72.78	72.32	71.83	70.58	68.6	66.06	62.67	58.1	52	0	134.08
1600	72.91	72.73	71.89	70.86	69.32	67.27	64.55	61.05	56.27	49.58	0	133.74
2000	72.71	72.37	70.85	69.71	67.84	65.44	63.26	59.99	54.25	48.82	0	133.19
2500	71.83	71.42	69.81	68.14	65.8	63.12	60.87	57.9	52.86	45.27	0	132.18
3200	70.94	70.41	68.68	66.81	64.11	60.42	58.51	55.95	50.38	41.58	0	131.07
4000	69.32	67.94	66.1	63.89	60.83	56.63	53.85	50.76	44.55	35.34	0	128.81
5000	65.31	63.11	60.94	58.53	54.75	49.99	46.11	41.48	34.51	22.72	0	124.56
6300	58.41	56.43	53.59	50.03	45.48	40.23	34.98	27.6	15.31	0	0	117.97
8000	48.47	45.78	42.51	38.57	32.98	25.7	15.66	0	0	0	0	108.83
10000	32.64	29.74	25.15	17.98	0	0	0	0	0	0	0	93.66
OASPL	83.75	84.07	84.23	84.4	84.44	84.65	84.85	84.27	82.42	79.05	0	147.52
PNL	95.06	94.82	93.97	93.07	91.69	90.09	88.66	87.02	84.01	79.49	0	93.34

NASA Lewis Allison AST Jet Noise Test 1996

rdg	403
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	599.91
m01	0.19916
pamb	14.294
tamb	496.316
rhumid	83.52
winds1	0
nprc	1.175
nprb	1.213
ptc	16.7955
ptb	17.3386
wacic	2.165
wacib	8.89
ttc	1117.66
ttb	503.45
ptmix	17.2322
ttmix	623.737
mixpnd	0.489938
grsvup	6632.01
badchan	[25,26]
bkgnd	391
escdate	03.Dec 96
esctime	21:14:06
DADSdate	97.08.25
DADStime	21:14:06
btchdate	03.Dec.96
btchtime	21:14:06

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 10:45:01 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	60.23	60.14	60.18	63.15	64.05	64.34	64.17	65.2	64.73	65.87	65.16	65	65.52	65.8	66.1	66.67	66.54	65.69	65.18	65.52	108.89
100	0	44.06	43.6	58.45	60.19	61.12	59.89	60.01	61.01	61.73	61.95	62.04	62.58	63.9	63.76	63.45	63.92	64.48	65.34	65.78	65.83	65.68	52.2	104.99
130	61.75	59.33	60.49	61.75	62.32	63.2	63.18	62.15	62.38	62.17	61.39	61.97	63.41	64.1	65.16	65.61	65.9	67.29	67.8	67.45	66.78	66.09	65.41	106.83
160	59.91	61.72	62.06	62.59	63.32	64.14	63.77	63.74	64.03	63.5	63.87	64.48	64.79	65.42	66.22	66.54	66.73	67.29	67.5	67.16	66.77	67.13	66.23	107.75
200	63.63	63.98	64.66	65.61	66.74	66.22	66.65	66.05	66.66	66.63	66.3	67.01	66.07	69.18	69.51	69.5	69.33	68.81	68.57	67.93	66.66	65.5	60.81	110.16
250	65.66	69.01	69.53	70.72	71.23	70.75	71.03	71.06	71.13	71.19	70.89	71.53	71.63	72.2	72.18	72.26	72.81	73.15	72.87	71.97	70.77	69.7	68.01	114.22
320	65.07	68.21	68.34	69.75	69.71	69.62	69.45	69.55	69.81	69.68	69.98	70.36	71.94	73.14	73.52	73.56	73.94	74.56	73.97	72.55	70.96	69.62	66.57	114.13
400	66.33	70.69	71.13	72.04	71.74	71.08	72.43	72.4	72.15	72.48	72.69	73.22	73.55	73.79	74.01	73.86	73.32	72.83	72.45	71.64	70.15	68.34	65.37	115.3
500	67.32	71.74	72.42	72.35	71.69	71.88	72.09	72.25	72.92	73.06	73.44	74.19	74.56	74.87	75.38	75.6	75.71	75.74	74.78	73.47	72.06	70.27	66.66	116.42
630	68.23	72.74	73.61	73.24	73.2	73.56	73.55	73.64	73.97	74.23	74.29	75.06	75.48	75.67	75.9	75.76	75.42	75.06	73.96	72.33	70.56	69.01	66.38	117.05
800	69.37	74.22	74.6	73.7	74.37	74.19	74.63	74.97	75.21	75.25	75.74	76.43	76.23	76.26	76.17	75.84	75.65	75.01	73.63	71.85	70.14	68.43	67.21	117.82
1000	70.06	74.56	74.36	73.48	74.44	73.89	74.54	75.06	75.7	75.71	75.65	76.26	75.98	76.04	75.69	75.43	75.61	74.95	73.42	71.52	69.7	68.22	67.64	117.74
1300	70.38	74.99	74.21	74.3	74.89	74.85	75.06	75.23	75.44	75.33	75.34	75.93	75.5	75.45	75.26	75.26	75.06	74.04	73.15	71.42	69.06	67.46	66.98	117.66
1600	70.06	74.35	73.7	74.52	74.91	74.52	74.88	75.25	75.73	75.57	75.53	75.74	75.47	75.31	75.46	75.46	74.78	73.83	72.58	70.6	68.61	66.56	65.82	117.59
2000	70.01	73.42	72.62	73.49	74.03	73.92	74.7	74.76	75.06	74.99	75.31	75.44	75.18	74.7	74.66	74.4	73.69	73.06	71.96	69.61	66.85	65.54	65.62	116.95
2500	69.62	72.44	72.39	73.12	73.95	73.57	74.07	74.46	74.5	74.03	74.82	75.45	74.56	74.03	74.12	73.84	72.96	71.88	70.9	68.93	66.33	64.78	64.21	116.42
3200	68.96	71.17	71.7	72.76	73.08	72.73	73.81	73.85	73.94	73.72	74.15	74.8	73.76	72.93	73.07	72.96	72.32	71.51	70.15	67.88	65.36	63.9	63.81	115.72
4000	67.53	69.91	70.7	71.4	71.43	71.99	73.24	72.95	73.33	72.95	73.19	73.66	72.77	71.63	71.62	71.69	71.1	70.1	68.78	66.45	63.88	62.98	62.85	114.68
5000	66.23	68.26	69.42	69.95	69.26	70.23	71.9	71.97	71.82	71.59	71.91	72.66	71.45	69.88	70.01	70.05	69.35	68.57	67.39	65.08	62.61	61.91	61.81	113.26
6300	65.17	67.61	68.35	68.69	68.44	69.34	70.73	70.98	71.23	70.91	71.23	71.77	70.75	69.03	69.03	68.85	67.76	66.96	65.93	63.88	61.62	60.89	60.48	112.33
8000	64.2	67.13	67.76	68.58	68.32	69.29	70.72	70.89	70.95	70.5	71.43	71.92	70.4	68.26	68.18	68.11	67.24	66.71	65.67	63.59	61.26	60.43	59.84	112.09
10000	62.73	65.01	65.18	66.99	67.43	68.32	66.29	68.9	69.11	68.1	69.8	68.99	67.92	65.86	66.32	67.02	65.89	64.34	63.45	61.6	58.93	57.59	57.12	110.11
OASPL	80.52	84.18	84.28	84.63	84.95	84.9	85.52	85.69	85.96	85.85	86.13	86.63	86.37	86.21	86.28	86.23	85.95	85.51	84.6	83.12	81.44	80.13	78.94	128.26

NASA Lewis Allison AST Jet Noise Test 1996

rdg	403
run	1
test_prog	Allison96
test_num	3
test_fact	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	598.91
m01	0.19918
pamb	14.294
tamb	498.318
rhumid	83.52
windat	0
nprc	1.175
nprb	1.213
ptc	16.7955
ptb	17.5386
wactc	2.165
wactb	8.89
ttc	1117.66
ttb	503.45
ptmix	17.2322
ttmix	623.737
mixpnd	0.489938
grsvbp	6632.01
badchan	(25,26)
bkgnd	391
escdate	03.Dec.96
esctime	21:14:08
DADSdate	97.08.25
DADStime	21:14:08
btchdate	03.Dec.96
btchtime	21:14:08

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:45:10 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	33.66	31.84	36.38	38.45	39.63	40.28	44	42.47	43.73	43.11	42.71	42.96	42.73	42.12	43.25	42.4	41.47	40.11	38.27	36.1	34.41	25.83	105.67
100	32.76	33.26	37.24	40.04	40.75	40.13	43.15	39.94	40.07	39.91	39.7	41.45	41.72	41.29	39.57	37.64	41.31	41.99	41.35	39.53	37.19	34.84	29.81	104.9
130	40.53	39.85	40.46	41.96	41.89	43.09	43.78	42.03	42.14	43.29	41.75	41.59	42.31	44.41	44.63	44.06	43.27	43.03	42.33	42.01	40.3	38.69	35.63	107.35
160	37.33	40.58	41.33	42.2	45.5	44.43	46.45	43.58	43.28	43.4	43.01	43.54	44.27	43.92	44.41	43.92	44.08	42.86	42.18	40.19	37.03	35.58	24.96	107.73
200	43.96	44.78	47.11	48.07	50	49.44	50.71	45.76	46.04	46.55	48.14	47.73	47.98	48.44	48.59	47.63	46.65	47.11	45.68	43.7	41.06	39.09	34.83	111.78
250	42.97	47.16	48.05	49.64	49.84	49.48	49.28	50.82	51.37	51.02	51	51.16	51.86	52.26	52.12	51.22	51.27	50.45	48.64	48.51	43.12	39.35	35.05	114.54
320	42.94	47.28	47.81	49.26	49.83	49.75	51.13	48.95	48.78	48.8	48.38	48.98	49.82	49.8	50.35	49.74	49.11	48.1	46.65	44.17	41.07	37.51	31.74	113.05
400	43.87	48.95	50.16	50.68	50.08	50.09	50.7	51.48	51.32	51.54	51.45	51.75	51.6	51.65	51.65	51.27	50.03	49.3	47.28	45.21	42.09	37.82	32.99	114.58
500	43.5	48.84	50.1	50.65	50.88	51.58	51.81	50.98	51.69	51.88	52.2	52.51	52.47	52.26	52.11	51.56	50.79	49.29	47.12	43.87	39.98	35.55	30.84	114.94
630	44.54	49.71	51.1	50.61	51.55	51.69	52.37	51.97	52.35	52.76	52.88	53.68	53.53	53.09	52.58	51.58	50.15	48.58	45.61	42.3	38.92	34.55	29.29	115.38
800	44.92	50.37	50.79	50.22	51.57	51.13	51.86	52.87	53.11	52.94	53.07	52.98	52.27	52.22	51.17	50.04	49.6	47.96	45.08	41.32	36.93	32.25	26.98	115
1000	44.61	49.81	49.91	50.06	51.19	51.31	51.78	52.48	53.11	52.97	52.5	53.06	52.24	51.5	50.7	49.75	48.33	46.39	43.73	39.83	35.13	30.34	25.03	114.62
1300	44.01	49.05	48.77	49.99	50.86	50.88	51.31	52.16	52.3	52.05	51.92	52.01	51.45	50.8	49.81	48.93	47.52	44.98	42.47	38.82	33.91	28.1	21.56	113.9
1600	42.83	47.92	47.51	48.85	48.47	49.49	50.31	51.65	52.14	51.86	51.38	51.2	50.44	49.62	49.08	48.04	46.12	43.81	40.8	36.51	30.93	25.26	19.02	113.01
2000	41.48	45.49	45.79	47.13	48.3	48.14	48.84	50.48	50.6	50.38	50.42	50.52	49.59	48.16	47.31	46.04	43.99	41.59	38.68	34.1	26.23	22.32	5.45	111.81
2500	39.3	42.38	43.57	44.85	45.92	45.81	47.08	49.19	49.15	48.61	49.06	48.98	47.39	46.25	45.38	44.06	42.06	39.6	36.14	31.09	24.89	18.41	0	109.77
3200	35.49	38.65	40.17	41.73	42.18	42.9	44.3	47.11	47.16	46.61	46.62	46.71	45.19	43.54	42.62	41.18	38.88	36.02	32.31	27.06	19.2	0	0	107.21
4000	29.47	33.28	35.19	36.53	36.63	37.63	39.83	44.05	44.25	43.63	43.52	43.37	41.52	39.08	38.1	36.82	34.38	31.3	27.24	19.56	0	0	0	103.46
5000	20.38	24.97	27.73	29.41	29.66	31.29	32.83	39.83	39.28	38.78	38.5	38.65	36.61	34.18	32.76	30.78	27.63	23.53	15.25	0	0	0	0	98.24
6300	0	0	9.83	15.71	17.92	20.67	23.77	33.18	33.4	32.75	32.53	32.59	30.51	27.12	25.11	21.84	13.03	0	0	0	0	0	0	91.58
8000	0	0	0	0	0	0	0	24.33	24.19	23.22	23.49	22.72	17.72	0	0	0	0	0	0	0	0	0	0	81.49
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	54.82	59.13	59.86	60.5	61.27	61.27	62	62.28	62.58	62.48	62.41	62.69	62.36	62.05	61.63	60.81	59.89	58.63	56.59	53.99	50.72	47.45	42.59	124.96
PNL	64.01	68.39	68.89	70.02	70.97	71.01	71.9	72.16	72.27	71.95	72.05	72.16	71.18	70.17	69.47	68.32	66.58	64.85	62.01	58.69	54.18	48.78	41.71	71.65

NASA Lewis Allison AST Jet Noise Test 1996

rdg	402
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	825.32
m01	0.20064
pamb	14.2907
tamb	498.841
rhumid	84.52
winds1	0
nprc	1.398
nprb	1.439
ptc	19.9498
ptb	20.5643
wactc	2.969
wactb	12.735
ttc	1181
ttb	504.055
ptmix	20.4481
ttmix	632.038
mixpnd	0.669586
gravixp	12960.8
badchan	(26)
bkgnd	391
escdate	03.Dec.96
esctime	21:02:02
DADSdate	97.08.20
DADStime	21:02:02
blchdate	03.Dec.96
blchtime	21:02:02

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 15:36:52 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.42	65.83	66.61	67	67.16	67.23	67.3	67.47	67.79	68.33	69.09	70.01	71.04	72.1	73.15	74.16	75.1	75.94	76.7	77.4	78.14	79.1	80.73	115.23
100	67.02	67	67.33	67.85	68.47	69.15	69.83	70.47	71.05	71.51	71.85	72.09	72.32	72.65	73.13	73.83	74.77	75.94	77.23	78.48	79.61	80.7	81.99	116.34
130	69.28	69.29	68.41	68.59	68.78	68.92	69.06	69.25	69.53	69.94	70.47	71.12	71.86	72.66	73.5	74.37	75.25	76.14	77.01	77.87	78.77	79.69	81.29	116.01
160	69.15	70.07	70.75	71.26	71.65	71.97	72.25	72.54	72.86	73.24	73.64	73.82	73.65	73.65	75.19	76.53	76.81	77.47	78.31	79.05	79.54	79.77	79.82	117.62
200	71.08	72.73	73.77	74.37	74.7	74.85	74.91	74.95	75.01	75.12	75.28	75.44	75.67	76.04	76.52	77.05	77.59	78.06	78.32	78.31	78.05	77.66	77.3	118.73
250	73.96	75.95	77	77.4	77.4	77.19	76.91	76.68	76.59	76.72	77.1	77.85	78.29	78.93	79.49	79.61	79.9	79.99	80.24	80.42	80.23	79.45	77.99	121.05
320	74.37	75.93	76.82	77.29	77.48	77.54	77.55	77.59	77.74	78.05	78.53	79.09	79.57	79.89	80.09	80.27	80.44	80.5	80.26	79.72	78.94	78.09	77.25	121.54
400	75.61	77.39	78.16	78.51	78.77	79.09	79.45	79.84	80.25	80.62	80.94	81.18	81.36	81.49	81.55	81.53	81.39	81.06	80.53	79.76	78.62	77.67	76.4	123.04
500	76.87	78.91	79.86	79.78	79.75	79.82	79.99	80.26	80.58	80.94	81.36	81.9	82.46	82.84	82.96	82.96	82.86	82.49	81.74	80.81	79.78	78.58	77.16	124.03
630	77.37	80.26	81.06	81.38	81.54	81.58	81.54	81.48	81.49	81.68	82.08	82.68	83.33	83.65	84.11	83.97	83.45	82.65	81.66	80.65	79.66	78.6	77.42	124.99
800	78.94	81.33	81.94	82.09	82.22	82.45	82.68	82.95	83.27	83.66	84.06	84.49	84.92	85.06	85.01	84.67	83.95	83.02	82.04	81.17	80.28	79.24	77.92	126.14
1000	79.93	82.66	83.24	83.31	83.35	83.56	83.9	84.23	84.55	84.87	85.06	85.21	85.4	85.28	85.12	84.82	84.18	83.14	81.79	80.58	79.59	78.74	77.93	126.66
1300	80.43	83.2	83.36	83.51	83.88	84.26	84.47	84.7	84.87	85.03	85.19	85.62	86.02	86.28	86.29	85.59	84.26	82.69	81.33	80.36	79.68	78.74	77.59	127.33
1600	80.9	83.57	83.61	83.66	84.11	84.69	84.93	85.03	85.22	85.51	85.61	85.82	86.46	86.75	86.56	85.87	84.54	82.73	81.16	79.92	78.89	77.99	77.16	127.64
2000	81.13	83.35	83.65	83.96	84.46	84.95	85.05	85.13	85.37	85.74	86.01	86.18	86.57	86.84	86.85	86.11	84.48	82.52	81.01	79.82	78.77	77.65	77.02	127.81
2500	80.82	82.77	82.87	83.19	83.74	84.47	84.98	84.89	84.82	85.43	85.97	86.13	86.21	86.44	86.25	85.4	83.96	82.24	80.56	79.23	78.21	77.36	76.72	127.4
3200	79.72	81.92	82.49	82.71	83.23	83.88	84.25	84.09	84.07	84.63	85.27	85.56	85.63	85.84	85.84	84.96	83.36	81.61	79.96	78.42	77.15	76.35	76.03	126.77
4000	78.74	81.06	81.48	81.44	81.68	82.7	83.46	83.07	83.05	83.83	84.49	84.72	84.23	84.23	84.19	83.5	82.01	80.09	78.42	76.95	75.67	74.84	74.57	125.61
5000	77.21	79.76	80.06	79.97	79.87	81.16	82.17	81.72	81.36	82.33	83.06	83.03	82.84	82.8	82.51	81.59	80.06	78.32	76.83	75.33	73.9	73.14	73.04	124.06
6300	76.12	78.47	78.88	78.54	78.39	79.62	81.23	80.71	80.23	81.14	81.49	81.5	81.62	81.36	80.92	79.91	78.31	76.67	75.38	74.04	72.68	71.85	71.5	122.7
8000	74.7	77.56	77.69	77.37	77.29	78.59	80.26	79.53	78.85	79.95	80.78	80.9	80.63	80.08	79.3	78.19	76.86	75.54	74.35	72.92	71.49	70.76	70.46	121.59
10000	72.52	74.41	74.37	74.43	75.11	76.62	77.81	76.55	75.55	76.95	77.87	77.09	76.9	76.98	76.63	75.71	74.28	72.59	71.13	69.59	68.05	67.06	66.73	118.64
OASPL	90.79	93.14	93.54	93.69	93.98	94.51	94.94	94.9	94.97	95.44	95.85	96.09	96.33	96.51	96.47	95.96	95.01	93.95	93.04	92.33	91.75	91.28	91.06	137.75

NASA Lewis Allison AST Jet Noise Test 1996

rdg 402
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nalrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH50
anoz 41.226
ambic 35.02
ambxb 78.39
scale 4
vid 825.32
m01 0.20064
pamb 14.2907
tamb 498.841
rhumid 84.52
winds1 0
nprc 1.396
nprb 1.439
ptc 19.9498
ptb 20.5643
wactc 2.969
wactb 12.735
ttc 1181
ttb 504.055
ptmix 20.4481
ttmix 632.038
mixpnd 0.669586
grsvixp 12960.8
badchan [26]
bkgnd 391
escdate 03.Dec.96
esctime 21:02:02
DADSdate 97.08.20
DADStime 21:02:02
bichdate 03.Dec.96
bichtime 21:02:02
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 15:37:03 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	42.23	46.18	46.45	46.58	46.85	47.18	50.16	47.43	45.91	50.28	50.33
100	44.28	43.7	47.09	47.41	47.74	47.32	49.2	50.4	50.18	49.87	49.61
130	48.04	46.17	47.96	50.12	50.4	50.38	52.18	49.14	49.16	51.1	50.86
160	47.23	50.23	51.29	51.95	53.83	53.87	54.75	52.38	52.17	53.17	53.11
200	50.08	51.81	54.46	54.8	56.14	55.83	56.58	54.67	54.27	54.85	54.44
250	52.6	54.63	56.23	57.14	57.2	57.42	57.37	56.25	57.18	56.96	57.94
320	52.48	54.25	55.44	56.21	57.03	57.8	58.12	58.99	56.93	57.33	57
400	53.06	55.94	57.23	57.81	58.05	58.25	58.65	58.93	59.36	59.62	59.99
500	53.1	56.14	57.54	58.67	59.26	59.61	59.71	58.99	59.36	59.72	60.02
630	53.83	57.19	56.46	58.77	59.31	59.74	60.39	59.82	59.83	60.3	60.77
800	54.56	57.79	59.04	59.75	60.27	60.89	61.34	60.84	61.3	61.46	61.72
1000	55.1	58.19	59.24	59.64	60.16	60.7	61.15	61.88	61.85	62.01	62
1300	53.85	57.87	58.41	59.18	60.02	60.86	61.32	61.84	61.77	61.82	61.89
1600	54	57.14	57.91	58.69	59.68	60.46	60.67	61.43	61.62	61.77	61.72
2000	52.76	55.61	56.51	57.38	58.26	59.12	58.84	60.83	61.02	61.23	61.23
2500	50.25	53.13	54.08	54.93	56.01	57	57.54	59.61	59.47	59.91	60.18
3200	46.36	49.7	51.05	51.79	52.55	53.66	54.49	57.38	57.19	57.49	57.85
4000	40.82	44.55	45.83	46.59	47.23	48.85	49.91	54.15	54.01	54.55	54.79
5000	32.8	36.79	38.5	39.21	39.77	41.46	43.26	49.4	48.87	49.58	49.66
6300	19.99	25.72	28.09	29.29	30.26	32.13	34.18	42.99	42.4	42.97	42.81
8000	0	0	0	0	0	9.91	17.12	33.73	32.98	33.65	33.87
10000	0	0	0	0	0	0	0	15.11	11.08	12.05	12.05
OASPL	64.35	67.29	68.43	69.13	69.81	70.37	70.84	71.05	71.21	71.49	71.65
PNL	74.83	77.8	78.88	79.67	80.46	81.25	81.84	81.91	81.88	82.28	82.47

distance: (	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4365.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	50.49	50.72	50.98	51.24	53.18	52.69	52.29	51.86	51.47	50.84	49.9	48.89	115.64
100	51.5	51.31	50.85	50.37	50.06	52.59	52.77	52.81	52.56	51.95	51.01	49.58	116.08
130	50.6	50.6	51.97	52.36	52.77	52.28	52.21	53.49	53	52.03	50.34	47.91	116.59
160	52.91	53.82	53.56	53.64	53.5	54.12	53.81	52.73	51.68	51.02	48.9	46.1	117.7
200	54.94	54.6	54.47	55.48	55	54.09	54.42	53.72	52.97	51.39	49.45	45.29	119.13
250	57.86	58.44	58.17	58.44	58	57.92	56.81	55.27	53.7	51.16	47.87	43.92	121.35
320	57.57	57.89	57.57	57.39	56.59	58.25	55.26	54.14	51.88	49.3	46.42	42.31	120.7
400	60.03	59.77	58.82	59.53	59.19	58.13	57.18	55.16	53.05	49.96	46.29	41.34	122.5
500	60.32	60.48	60.33	59.89	59.07	57.99	56.06	54.08	51.63	48.67	45.01	40.17	122.72
630	61.16	61.28	61.29	60.7	59.66	58.22	56.51	54.32	51.69	48.82	44.79	39.48	123.31
800	61.84	61.83	61.54	60.86	59.81	58.31	56.03	53.22	50.36	47.06	43.09	37.63	123.9
1000	62	61.76	61.18	60.84	59.43	57.3	54.84	51.94	48.96	45.71	41.45	35.28	123.87
1300	62.02	62.04	61.81	61.09	59.54	57.33	54.1	50.97	47.79	44.13	39.47	32.94	123.85
1600	61.53	61.61	61.38	60.74	58.99	56.11	53.01	49.72	46.12	42.09	37.09	30.24	123.42
2000	61.06	60.97	60.5	59.39	57.72	55.05	51.5	47.96	44.48	40.43	35.2	27.55	122.5
2500	59.87	59.33	58.92	58	55.91	53.07	49.63	45.91	41.78	36.91	30.93	22.63	120.87
3200	57.79	57.06	56.35	55.27	53.16	50.02	46.34	42.3	37.56	32.02	25.27	8.02	118.28
4000	54.37	53.17	52.07	50.54	48.38	45.24	41.11	36.61	31.37	24.7	9.07	0	114.43
5000	48.86	47.81	46.76	45.09	42.2	38.3	33.82	28.85	21.9	0	0	0	108.92
6300	42.16	41.18	39.44	37.07	33.71	29.44	23.87	14.35	0	0	0	0	101.86
8000	32.87	30.92	28.29	24.72	19.2	0	0	0	0	0	0	0	91.85
10000	0.88	0	0	0	0	0	0	0	0	0	0	0	70.88
OASPL	71.7	71.64	71.37	70.84	69.77	68.37	66.7	64.96	63.2	61.19	58.61	55.69	133.9
PNL	82.32	81.96	81.54	80.74	79.1	76.64	74.11	71.16	68.26	64.93	60.92	55.28	81.87

NASA Lewis Allison AST Jet Noise Test 1996

rdg	401
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	969.55
m01	0.2005
pamb	14.2907
tamb	498.705
rhumid	82.18
winds1	0
nprc	1.54
nprb	1.621
ptc	22.0077
ptb	23.1652
wactc	3.264
wactb	15.383
ttc	1319.41
ttb	503.764
ptmix	22.9626
ttmix	646.552
mixpnd	0.777722
grsvixp	18079.2
badchan	(26)
bkgnd	391
escdate	03.Dec.96
esctime	20:48:07
DADSdate	03.Dec.96
DADStime	20:48:07
btchdate	03.Dec.96
btchtime	20:48:07

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:34:29 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	69.81	71.4	71.48	71.06	70.88	71.32	72.19	73.21	74.18	74.9	75.22	75.15
100	70.53	71.95	72.83	73.33	73.6	73.73	73.82	73.92	74.1	74.39	74.83	75.43
130	73.19	73.85	74.2	74.36	74.41	74.42	74.43	74.48	74.81	74.85	75.22	75.72
160	73.73	74.7	75.41	75.94	76.33	76.64	76.9	77.12	77.33	77.54	77.78	78.16
200	75.79	77.39	78.29	78.72	78.85	78.83	78.74	78.88	78.71	78.85	79.17	79.67
250	76.91	78.44	79.38	79.89	80.07	80.1	80.24	80.74	81.36	81.5	81.64	82.04
320	79.02	80.37	80.99	81.18	81.19	81.18	81.2	81.28	81.46	81.75	82.15	82.86
400	79.82	82.27	82.96	82.68	82.4	82.6	83.1	83.49	83.49	83.51	83.94	84.53
500	80.57	83.08	83.46	83.46	83.51	83.6	83.72	83.87	84.07	84.38	84.86	85.49
630	81.34	83.56	84.05	84.4	84.85	85.17	85.39	85.58	85.78	86.03	86.34	86.79
800	83.54	85.37	85.8	85.69	85.59	85.81	86.24	86.68	87.03	87.38	87.68	88.07
1000	84.41	86.01	86.31	86.23	86.38	86.97	87.64	88.11	88.4	88.61	88.76	88.92
1300	84.86	86.55	86.8	86.86	87.19	87.78	88.19	88.71	89.33	89.79	89.96	89.99
1600	85.13	87.22	87.64	87.69	87.89	88.5	89.07	89.54	89.76	89.84	90.21	90.78
2000	85.65	87.42	87.65	88	88.47	89.05	89.43	89.88	90.19	90.33	90.88	91.42
2500	85.39	87.08	87.58	87.83	88.08	88.73	89.47	90.03	90.2	90	90.74	91.59
3200	84.49	86.48	87.22	87.51	87.68	88.22	89.06	89.62	89.78	89.78	90.44	91.19
4000	83.53	85.48	86.07	86.3	86.45	87.28	88.34	88.8	88.87	89.01	89.63	90.31
5000	82	84.1	84.7	85.02	84.9	85.83	86.88	87.16	87.57	87.85	88.24	89.09
6300	80.9	82.84	83.81	84.01	83.65	84.57	85.72	85.92	86.15	86.8	86.79	87.28
8000	79.68	81.78	82.65	82.93	82.63	83.38	84.56	84.87	84.9	85.04	85.84	86.07
10000	82.17	78.33	79.32	80.4	80.9	81.38	81.6	81.64	81.52	81.5	82.05	81.65
OASPL	95.41	97.13	97.83	97.82	97.96	98.52	99.15	99.55	99.82	99.98	100.42	100.95

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145 *	150	155	160	165	PWL
80	75.04	75.22	75.95	77.17	78.7	80.38	82.12	83.82	85.45	87.15	89.32	120.98
100	76.18	77.05	78.02	79.08	80.21	81.41	82.66	83.86	84.98	86.1	87.53	121.24
130	76.37	77.18	78.08	79.13	80.31	81.63	83.06	84.44	85.64	86.67	87.71	121.7
160	78.95	80.28	81.59	82.43	82.91	83.65	84.74	85.89	86.83	87.41	87.58	123.59
200	80.32	81.07	81.87	82.67	83.44	84.15	84.78	85.18	85.26	85.05	84.85	123.96
250	82.55	83.03	83.4	83.64	84.21	85.02	85.13	85.34	85.77	85.84	84.89	125.26
320	83.25	83.89	84.58	84.9	84.91	85.17	85.73	85.51	84.24	82.67	80.84	125.77
400	85.07	85.61	86.19	86.58	86.7	86.6	86.14	85.23	83.97	82.55	81.15	127.25
500	86.14	86.69	87.03	87.13	87	86.63	86.04	85.08	83.68	81.97	80.02	127.87
630	87.31	87.57	87.75	87.85	87.76	87.38	86.53	85.27	83.75	82.1	80.49	128.92
800	88.57	89.03	89.25	89.14	88.75	88.08	87.01	85.72	84.32	82.88	81.51	130.09
1000	89.17	89.36	89.57	89.42	88.94	88.37	87.5	85.94	83.99	82.5	81.35	130.82
1300	90.34	90.59	90.48	89.89	88.97	87.84	86.83	85.35	83.97	82.6	81.21	131.53
1600	91.17	91.32	91.2	90.47	89.2	87.95	86.69	85.22	83.65	82.18	80.96	132.1
2000	91.78	91.96	91.76	90.8	89.2	87.56	86.27	84.96	83.18	81.75	80.79	132.52
2500	91.69	91.68	91.57	90.61	89.01	87.49	86.3	84.9	83.2	81.71	80.74	132.39
3200	91.43	91.49	91.28	90.16	88.43	86.91	85.72	84.48	82.94	81.52	80.63	132.02
4000	90.39	89.94	89.62	89.07	87.78	86.09	84.73	83.5	82.21	81.18	80.51	130.89
5000	89.12	88.48	88.1	87.22	85.71	84.22	82.98	81.74	80.43	79.33	78.75	129.55
6300	87.36	86.86	86.36	85.42	83.87	82.19	80.76	79.45	78.2	77.2	76.81	128.05
8000	85.81	85.36	84.58	83.58	82.32	80.8	79.3	77.81	76.37	75.25	74.85	126.72
10000	81.51	81.58	81.18	80.59	79.47	77.49	75.8	74.23	72.53	71.18	70.84	123.52
OASPL	101.22	101.3	101.28	100.75	99.91	99.13	98.49	97.82	97.19	96.82	96.82	142.4

NASA Lewis Allison AST Jet Noise Test 1996

rdg	401
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	969.55
m01	0.2005
pamb	14.2907
tamb	498.705
rhumid	82.16
winds1	0
nprc	1.54
nprb	1.621
ptc	22.0077
ptb	23.1652
wactc	3.264
wactb	15.383
ttc	1319.41
ttb	503.784
ptmix	22.9626
ttmix	646.552
mixpnd	0.777722
grsvisp	16079.2
badchan	(26)
bkgnd	391
escdate	03.Dec.96
esctime	20:48:07
DADSdate	03.Dec.96
DADStime	20:48:07
blchdate	03.Dec.96
blchtime	20:48:07

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 04:34:37 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	47.11	51.28	51.82	51.99	52.04	51.95	54.17	53.17	52.3	55.04	54.68	54.44	54.43	54.83	54.98	57.44	57.3	57.22	57.04	56.83	56.34	55.58	54.64	120.56
100	48.3	48.84	52.48	52.86	53.08	52.56	54.5	53.85	53.18	52.65	52.54	55.08	55.38	55.4	55.24	55.1	57.56	58.01	58.48	58.73	58.53	57.75	56.26	121.52
130	51.95	52.77	53.17	55.22	55.37	55.19	56.82	54.37	54.3	55.95	55.79	55.77	56.03	56.3	56.54	56.72	58.8	58.95	60.11	59.99	59.41	58.02	55.65	122.91
160	52.08	54.88	55.85	56.43	56.18	58.07	58.85	56.94	56.69	58.11	57.88	57.63	58.94	58.17	59.5	59.45	60.14	59.79	59.18	58.32	57.81	55.77	52.93	123.25
200	54.28	55.79	57.52	57.79	58.88	58.74	59.98	58.41	57.88	58.2	58.06	58.92	58.81	58.95	60.05	59.97	59.66	60.33	59.74	58.9	57.42	56.21	52.63	123.73
250	56.47	58.53	60.12	60.88	60.76	60.93	60.9	60.3	61.58	61.44	62.05	62.03	62.94	62.7	63.22	62.81	62.25	61.34	60.32	59.19	56.54	52.81	48.04	125.71
320	56.43	58.65	59.91	60.15	60.67	61.36	61.82	60.67	60.87	60.98	60.62	61.33	61.65	61.56	62.19	62.03	62.07	61.23	60.23	57.89	54.82	51.59	47.09	125.19
400	57.44	60.16	61.26	61.55	61.63	61.82	62.29	62.57	62.71	62.75	63.17	63.5	63.53	63.81	63.64	63.38	62.2	61.18	59.2	57.15	54.05	50.09	44.92	126.28
500	56.85	60.12	60.9	61.85	62.69	63.14	63.48	62.6	62.8	63.07	63.62	64.01	64.27	64.31	64.25	63.74	62.87	61.14	59.09	56.26	52.73	48.52	43.11	126.66
630	58.05	60.91	62.09	62.47	62.98	63.37	64.03	63.91	64.1	64.47	64.71	65.07	65.27	65.18	64.64	63.86	62.7	61.31	59.19	56.2	52.68	48.17	42.73	127.33
800	58.85	61.35	62.38	62.76	63.19	64.08	64.94	64.57	65.02	65.07	65.29	65.56	65.67	65.71	65.33	64.35	62.89	61.05	58.59	55.52	51.81	46.89	40.91	127.77
1000	59.3	61.5	62.36	62.81	63.5	64.47	65.03	65.55	65.74	65.86	65.83	65.67	65.61	65.23	64.69	63.74	62.23	60.26	57.73	54.24	49.91	45.1	38.71	127.79
1300	58.52	61.37	62.42	63.02	63.5	64.37	65.23	65.06	66.25	66.61	66.68	66.53	66.39	66.11	65.41	63.86	61.7	59.1	56.21	52.85	48.83	43.82	36.92	128.13
1600	58.26	61.06	62.02	62.78	63.55	64.45	65.1	65.92	66.16	65.99	66.22	66.6	66.64	66.16	65.19	63.45	60.94	58.16	55.09	51.31	46.74	41.17	33.98	127.84
2000	57.3	59.76	60.78	61.63	62.48	63.42	64.17	65.59	65.87	65.91	66.23	66.44	66.15	65.69	64.65	62.71	59.97	56.79	53.77	50.03	45.01	39.06	31.18	127.38
2500	54.91	57.69	58.98	59.91	60.5	61.24	62.27	64.75	64.87	64.54	64.89	65.42	64.97	64.28	63.3	61.17	58.16	54.91	51.42	47.41	42.33	35.91	27.17	125.97
3200	51.05	54.1	55.67	56.51	57.15	58.33	59.53	62.9	62.93	62.76	63.03	63.22	62.74	61.92	60.7	58.54	55.44	52.03	48.4	44.01	38.45	31.29	20.5	123.63
4000	45.5	49.01	50.61	51.56	52.11	53.42	54.58	59.7	59.83	59.7	59.92	60.15	59.39	57.68	56.14	54.13	50.9	46.99	43	38.22	31.81	22.9	0	119.92
5000	37.49	41.06	43.15	44.49	44.94	46.47	47.95	54.87	55.08	55.04	54.84	54.9	53.95	52.35	50.51	47.74	43.94	39.52	34.64	28.76	19.51	0	0	114.53
6300	25.97	30.34	33.17	34.98	35.44	36.9	38.62	48.25	48.36	48.44	48.13	47.81	46.76	44.63	42.56	39.32	34.98	29.89	23.28	3.82	0	0	0	107.35
8000	0	0	12.43	17.31	19.27	21.6	23.25	39.04	39.02	38.81	38.51	37.78	36.12	33.78	30.44	26.25	20.21	0	0	0	0	0	0	97.22
10000	0	0	0	0	0	0	0	23.4	22.94	21.98	20.67	17.5	12.54	0.82	0	0	0	0	0	0	0	0	0	79.5
OASPL	68.61	71.19	72.3	72.89	73.47	74.11	74.83	75.33	75.59	75.7	75.9	76.13	76.1	75.87	75.42	74.45	73.23	71.89	70.47	68.82	66.97	64.9	62.24	136.33
PNL	79.33	81.95	83.12	83.89	84.58	85.39	86.21	86.76	86.92	86.86	87.09	87.43	87.15	86.6	85.61	84.21	81.99	79.51	76.95	73.81	70.18	66.33	61.22	96.72

NASA Lewis Allison AST Jet Noise Test 1996

rdg	400
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1024.74
m01	0.19942
pamb	14.292
tamb	499.409
rhumid	82.79
winds1	0
nprc	1.741
nprb	1.818
ptc	24.8824
ptb	25.9629
wactc	3.659
wactb	17.421
ttc	1404.64
ttb	503.455
ptmix	25.7918
ttmix	659.86
mixpnd	0.813849
grsvixp	21601.5
badchan	[14,15,25,26]
bkgnd	391
escdate	03.Dec.96
esctime	20:32:45
DADSdate	97.08.18
DADStime	20:32:45
btchdate	03.Dec.96
btchtime	20:32:45

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:45:50 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.43	75.94	76.45	76.94	77.4	77.8	78.14	78.41	78.6	78.76	78.98	79.33	79.86	80.67	81.74	83.11	84.79	86.69	88.57	90.27	91.73	93.08	94.76	126.82
100	77.82	77.96	77.96	78.1	78.55	78.93	78.92	78.74	78.67	78.82	79.22	79.86	80.58	81.26	81.96	83	84.77	87.17	89.36	91.08	92.48	93.84	95.44	127.48
130	77.82	78.15	78.39	78.56	78.69	78.79	78.87	78.85	79.05	79.29	79.68	80.86	82.04	83.25	84.41	85.8	86.9	88.27	89.62	90.9	92.12	93.41	94.9	127.85
160	78.87	80.26	80.86	81.03	80.96	80.69	80.94	81.15	81.53	82.19	83.17	83.87	84.33	84.77	85.37	86.25	87.47	89.03	90.73	92.27	93.45	94.23	94.87	129.12
200	79.45	81	81.82	82.34	82.52	82.12	82.25	82.59	82.74	82.86	83.19	83.35	83.54	84.03	85.06	86.6	88.43	90.11	91.02	91.31	91.34	91.45	91.67	128.75
250	81.34	82.51	83.14	83.39	83.42	83.44	83.6	83.92	84.41	84.97	85.49	85.94	86.46	87.29	88.46	89.25	89.75	90.45	91.21	91.78	92.1	92.47	91.96	130.14
320	82.53	83.81	84.2	84.19	84.14	84.14	84.24	84.46	84.81	85.27	85.75	86.24	86.84	87.57	88.55	89.71	90.51	90.8	90.36	90.45	90.51	90.2	88.93	130.05
400	82.88	84.53	85.14	85.16	85.2	85.55	85.91	86.36	86.78	87.14	87.43	87.69	88.11	88.86	89.98	90.62	90.69	90.77	90.86	90.41	89.35	88.3	86.96	130.86
500	84.05	85.92	85.95	85.72	86.11	86.8	87.09	87.47	87.98	88.51	88.93	89.14	89.39	89.88	90.66	90.97	90.84	90.93	91.11	90.88	89.72	88.07	86.23	131.65
630	84.06	86.85	87.42	87.21	87.23	87.79	88.18	88.32	88.9	89.13	89.34	89.75	90.43	91.21	91.92	91.93	91.68	91.81	91.58	90.46	88.79	86.91	84.98	132.45
800	85.95	87.77	88.28	88.52	88.87	89.49	90.05	89.79	90.1	90.59	91.05	91.37	91.71	92.2	92.85	93.11	93.02	92.86	92.05	90.84	89.43	87.78	85.91	133.68
1000	87.26	89.05	89.52	89.59	89.54	90.1	90.89	90.12	90.69	91.42	92.03	92.4	92.64	92.81	93	92.94	92.85	92.95	92.44	91.25	89.54	87.6	86.06	134.22
1300	88.13	89.7	90	90.25	90.35	90.78	91.12	90.96	91.7	92.52	92.96	93.18	93.35	93.52	93.7	93.43	93.04	92.9	92.5	91.6	90.06	87.83	85.75	134.85
1600	88.56	90.57	90.96	91.24	91.54	91.88	91.94	91.92	92.92	93.49	93.83	94.16	94.42	94.59	94.64	93.71	92.93	93.13	92.49	91	89.3	87.85	86.81	135.62
2000	89.35	91.16	90.81	91.33	92.11	92.4	92.65	92.52	93.27	93.97	94.27	94.55	94.6	95	95.19	94.49	93.28	92.7	92.13	91	89.45	88.13	87.09	136.01
2500	89.33	91.1	91.56	91.99	92.36	92.61	92.93	92.88	93.98	94.83	95.06	95.49	95.77	95.83	95.56	94.58	93.4	92.63	91.75	90.52	89.11	87.92	87.05	136.49
3200	88.96	91.06	91.76	92.47	92.54	92.81	93.33	93.39	94.26	95.11	95.79	96.35	96.7	96.68	96.25	94.99	93.6	92.75	91.58	90.17	88.94	88.11	87.61	136.96
4000	89.01	91.41	92.01	92.41	92.35	92.51	93.37	93.53	94.92	95.88	96.32	96.96	97.49	97.44	96.68	95.25	93.93	93.08	91.81	90.2	88.73	88.04	87.91	137.41
5000	88.81	91.17	91.72	91.73	91.38	91.78	92.84	93.16	94.58	95.77	96.57	97.2	97.42	97.04	96.01	94.45	93.11	92.41	91.32	89.63	88.02	87.5	87.43	137.09
6300	89.01	91.44	92	91.82	91.43	91.56	92.77	92.79	94.28	95.71	95.64	95.87	96.13	95.99	95.08	93.36	91.8	91	89.88	88.31	86.86	86.15	85.77	136.38
8000	88.84	91.59	92.18	92.37	92.2	91.8	93.17	92.3	93.47	94.84	95.33	95.64	95.56	94.88	93.48	91.73	90.35	89.82	88.66	87.09	85.37	84.4	84.05	135.87
10000	87.07	89.08	89.47	90.37	91.18	90.53	90.94	89.86	90.66	91.71	92.96	93.54	93.25	92.26	90.78	89.27	87.83	86.54	85.54	84.02	81.99	80.49	80	133.5
OASPL	99.89	101.95	102.39	102.87	102.79	102.97	103.59	103.49	104.47	105.36	105.84	106.28	106.54	106.52	106.23	105.49	104.85	104.71	104.43	103.93	103.47	103.35	103.56	147.47

NASA Lewis Allison AST Jet Noise Test 1996

rdg	400
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1024.74
m01	0.19942
pamb	14.292
tamb	499.409
rhumid	82.79
winds1	0
nprc	1.741
nprb	1.818
ptc	24.8824
ptb	25.9829
wactc	3.659
wactb	17.421
ttc	1404.64
ttb	503.455
ptmix	25.7916
ttmix	659.88
mixpnd	0.813649
grsvtp	21601.5
badchan	(14,15,25,26)
bkgnd	391
escdate	03.Dec.96
esctime	20:32:45
DADSdate	97.08.18
DADStime	20:32:45
btchdate	03.Dec.96
btchtime	20:32:45

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 11:46:01 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	53.45	56.77	56.77	56.59	56.46	56.31	59.21	58.37	58.73	59.35	58.85	58.58	58.56	58.8	59.33	61.62	62.08	63.33	64.25	64.6	64.32	63.57	62.51	126.92
100	54.83	54.41	57.17	57.51	57.85	57.35	58.98	58.67	57.74	56.94	56.61	59.07	59.75	60.42	61.05	61.65	64.4	64.73	64.77	64.56	64.14	63.59	62.79	127.33
130	56.39	57.31	57.95	60.14	59.86	59.46	60.84	58.83	58.74	61.04	61.11	61.29	61.61	63.7	63.45	63.28	63.4	64.1	64.76	66.31	66.01	64.67	62.76	128.53
160	56.77	59.69	60.31	60.59	61.91	61.34	62.12	60.97	60.64	62.17	62.37	62.39	62.95	62.53	62.67	63.12	64.73	65.43	65.59	64.88	63.67	62.48	59.95	128.25
200	58.41	59.77	61.53	61.67	62.62	62.4	63.34	62.31	61.99	62.44	62.47	62.92	62.45	62.59	64.33	65.05	65.16	65.77	65.39	64.81	63.59	62.49	58.21	128.65
250	59.63	61.52	62.93	63.67	63.56	63.81	63.94	63.49	64.73	65.01	65.92	66.23	67.09	67.11	67.54	67.5	67.79	66.7	65.66	64.71	62.83	60.2	56.19	130.17
320	60.38	62.06	62.78	63.11	63.66	64.48	64.49	63.84	64.18	64.89	64.22	64.65	64.84	65	65.62	66.06	66.37	65.59	64.63	62.52	59.99	57.46	53.23	128.95
400	59.99	62.44	63.58	63.87	64.29	65.09	65.65	65.44	65.83	66.1	66.26	66.4	66.49	67.22	67.79	67.93	66.69	66	64.92	63.47	60.39	56.03	50.69	130.06
500	59.67	62.86	63.81	64.39	64.92	65.77	66.41	66.2	66.82	67.33	67.54	67.47	67.62	67.67	67.63	67.3	66.53	65.52	64.17	61.77	58.23	53.89	48.03	130.27
630	60.75	63.38	64.55	65.18	65.98	66.77	67.72	66.65	67.22	67.66	67.78	68.01	68.12	68.39	68.38	67.71	66.76	65.92	63.83	61.06	57.63	53.19	47.2	130.73
800	61.53	64.33	65.42	65.93	66.51	67.44	68.08	67.68	67.99	68.22	68.61	68.6	68.89	68.91	68.76	67.98	66.86	65.68	63.61	60.62	56.67	51.77	45.43	131.19
1000	62.14	64.64	65.73	66.28	66.5	67.16	67.91	67.56	68.15	68.86	69.14	69.3	69.11	68.69	68.24	67.63	66.52	65.24	63.14	60.02	55.91	50.33	43.38	131.2
1300	62.12	64.68	65.42	66.4	67.38	67.97	68.25	67.91	68.61	69.36	69.61	69.49	69.33	69	68.45	66.87	65.29	64.14	62.19	58.9	54.8	49.16	42.15	131.27
1600	61.67	64.51	65.26	66.09	67.11	67.77	68.08	68.32	69.4	69.86	70.06	69.99	69.78	69.41	68.89	67.11	64.86	63.27	60.94	57.53	52.91	47.37	40.16	131.43
2000	61.23	63.74	64.46	65.56	66.46	67.19	67.69	68.2	68.93	69.61	69.73	69.78	69.59	69.11	68.3	66.62	64.25	61.91	59.25	55.64	51.02	45.44	37.64	130.97
2500	58.69	61.92	63.22	64.62	65.23	65.55	66.42	67.59	68.66	69.18	69.37	69.39	69.12	68.54	67.52	65.42	62.81	60.31	57.09	53.05	48.25	42.25	33.77	130.17
3200	56.03	59.27	61.04	62.2	62.84	63.21	64.33	66.62	67.5	68.22	68.69	69.01	69	68.21	66.59	63.94	60.98	58.38	54.66	50.35	44.78	38.03	28.43	129.11
4000	51.67	55.48	57.06	58.03	58.31	59.07	60.39	64.58	65.91	66.73	66.91	67.02	66.64	65.58	63.74	61.03	58.03	54.83	50.8	45.42	38.8	31.06	17.82	126.68
5000	44.55	48.79	50.72	51.76	52.21	53.1	54.69	60.78	62.1	63	63.27	63.13	62.55	61.09	58.72	55.34	51.73	48.23	43.58	37.32	29.56	17.95	0	122.37
6300	34.67	39.58	42.11	43.55	44.44	45.14	48.92	55.08	56.52	57.58	56.97	56.51	55.78	54.17	51.29	47.28	42.85	38.47	33.08	25.21	6.39	0	0	115.91
8000	15.23	23.92	27.18	29.57	31.34	31.87	33.25	46.38	47.44	48.4	48.3	47.6	46.05	43.46	39.71	34.95	29.76	23.75	11.28	0	0	0	0	108.43
10000	0	0	0	0	0	0	0	32.19	32.73	33.04	32.94	31.75	29.52	25.74	19.96	8.26	0	0	0	0	0	0	0	90.79
OASPL	72.08	74.57	75.61	76.34	76.97	77.55	78.2	78.33	79.02	79.61	79.83	79.93	79.9	79.69	79.37	78.55	77.75	77	75.97	74.78	73.16	71.48	69.22	142.4
PNL	83.31	85.98	87.01	87.98	88.69	89.3	89.98	90.12	90.99	91.62	91.9	92.07	91.99	91.42	90.39	88.74	86.87	85.09	82.78	79.88	76.52	73.1	68.38	91.31

NASA Lewis Allison AST Jet Noise Test 1996

rdg 404
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld TONG
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 561.82
m01 0.29973
pamb 14.2417
tamb 497.891
rhumid 86.95
winds1 0
nprc 1.176
nprb 1.212
ptc 16.7482
ptb 17.2609
wactc 1.886
wactb 8.625
ttc 1111.69
ttb 502.118
ptmix 17.1689
ttmix 611.494
mixpnd 0.463401
grsvixp 5905.29
badchan (24,25,26)
bkgnd 392
escdate 03.Dec.96
esctime 21:34:07
DADSdate 03.Dec.96
DADStime 21:34:07
btchdate 03.Dec.96
btchtime 21:34:07
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 04:42:04 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	59.36	63.42	63.45	66.22	65.22	66.54	65.86	65.86	65.89	66.38	66.95	67.07	66.53	66.13	65.91	65.77	65.59	65.23	64.76	64.38	60.2	60.32	61.26	108.5
250	65.28	68.48	70.17	70.24	70.12	69.44	68.98	68.61	68.91	69.36	69.89	69.96	70.29	70.87	71.4	71.78	72.08	71.83	70.9	70.38	69.07	68.72	67.61	112.97
320	65.75	68.51	69.3	69.52	69.4	68.98	68.84	68.98	69.31	69.65	69.54	69.41	70.15	70.94	71.82	71.98	72.18	72.47	72.38	71.47	70.2	68.89	64.17	113.05
400	65.21	68.86	69.97	70.38	70.35	70.47	70.98	71.03	71.02	71.28	71.35	71.3	71.23	71.38	71.27	71.02	70.94	70.36	69.48	68.4	66	65.21	60.47	113.42
500	67.57	70.6	71.49	71.5	71.45	71.61	71.85	71.92	72.18	72.55	72.78	72.87	73.08	73.36	73.59	73.63	73.42	73.02	72.33	71.26	69.96	68.68	66.05	115.14
630	69.24	72.29	73	73.01	73.1	72.94	72.45	72.49	72.92	72.79	72.76	73.14	73.65	74.04	74.12	73.8	73.07	72.08	70.94	69.92	69.06	68.46	68.45	115.66
800	70.18	72.75	73.16	73.07	73.18	73.22	73.26	73.29	73.39	73.61	73.67	73.76	73.99	74.15	74.02	73.53	72.83	72.12	71.16	69.7	68.42	67.64	67.59	115.98
1000	70.44	72.92	73.31	73.14	73.12	73.22	73.25	73.25	73.46	73.67	73.83	73.94	73.87	73.53	73.16	72.83	72.34	71.46	70.22	68.96	67.71	67.05	67.32	115.83
1300	70.17	72.44	72.98	72.97	73.06	73.26	73.49	73.68	73.74	73.62	73.37	73.19	73.2	73.13	72.91	72.54	72.08	71.33	70.22	68.81	67.57	66.89	67.11	115.65
1600	69.65	72.18	72.67	72.63	72.81	73.19	73.44	73.4	73.37	73.37	73.22	72.99	72.75	72.84	72.52	72.18	71.62	70.82	69.86	68.74	67.57	66.55	66.3	115.36
2000	69.24	71.39	71.98	72.22	72.57	72.83	72.96	72.81	72.67	72.65	72.9	72.31	72.07	72.02	71.84	71.51	71.02	70.2	68.99	67.72	66.6	65.83	65.76	114.8
2500	69.09	70.96	71.47	71.71	72.08	72.38	72.85	72.57	72.38	72.47	72.26	71.58	71.4	71.52	71.3	70.67	69.91	69.02	67.99	66.79	65.63	64.79	64.75	114.28
3200	68.82	70.34	70.74	71.15	71.74	71.85	72.35	72.04	71.83	71.87	71.5	70.99	70.7	70.58	70.36	69.9	69.19	68.32	67.39	66.4	65.38	64.5	64.39	113.67
4000	67.93	69.21	69.75	70.19	70.68	70.87	71.43	71.02	70.77	70.89	70.74	70.2	69.8	69.38	69.01	68.63	68.05	67.23	66.28	65.18	64.06	63.17	63.16	112.66
5000	66.42	68.19	68.94	68.98	68.62	69.38	70.26	69.91	69.56	69.66	69.86	69.29	68.88	68.21	67.59	67.12	66.6	65.91	65.01	63.86	62.75	62.04	62.39	111.43
6300	65.78	67.26	68.17	68.26	68.12	68.65	69.25	69.29	69.38	69.51	69.04	68.63	68.19	67.64	67.04	66.41	65.71	64.67	63.59	62.8	62.1	61.51	61.9	110.78
8000	65.23	66.96	67.87	68.15	68.22	68.76	69.3	69.36	69.57	69.59	69.21	68.86	68.26	67.55	66.76	65.96	65.21	64.26	63.32	62.62	61.84	61.12	61.44	110.75
10000	64.74	65.41	66	66.91	67.59	67.63	67.55	67.63	68.08	67.76	67.09	66.43	65.92	65.5	65.15	64.84	64.33	62.65	61.02	60.62	60.35	59.41	59.15	109.14
OASPL	80.47	82.8	83.44	83.59	83.72	83.88	84.08	84	84.05	84.17	84.11	83.96	83.94	83.96	83.88	83.61	83.21	82.56	81.69	80.63	79.35	78.52	77.74	126.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg	404
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
naerbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amuxc	35.02
amixb	78.39
scale	4
vid	561.82
m01	0.29973
pamb	14.2417
tamb	497.891
rhumid	86.95
winds1	0
nprc	1.176
nprb	1.212
ptc	16.7482
ptb	17.2609
wactc	1.866
wactb	8.625
ttc	1111.69
ttb	502.118
ptmix	17.1689
ttmix	611.494
mixpnd	0.463401
gravwp	5905.29
badchan	(24,25,26)
bkgnd	382
escdate	03.Dec.96
esctime	21:34:07
DADSdate	03.Dec.96
DADStime	21:34:07
btchdate	03.Dec.96
btchtime	21:34:07

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:42:15 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	41.18	42.17	0	0	0	0	0
160	37.06	44.98	48.28	49.24	49.4	49.49	49.16	45.36	47.48	47.78	49.05	49.51
200	43.47	46.43	48.61	49.08	48.93	48.86	48.49	48.2	48.42	48.99	49.52	49.1
250	43.4	46.37	47.48	48.15	48.85	48.78	49.8	48.35	48.4	48.35	47.86	48.16
320	42.24	46.75	48.46	49.11	49.14	49.83	50.27	50.12	50.44	50.58	50.39	49.74
400	44.34	47.83	49.16	49.8	50.74	51.08	50.82	50.85	51.06	51.3	51.47	51.28
500	44.96	48.76	50.12	50.35	50.36	50.8	51.02	50.83	51.29	51.25	51.28	51.43
630	45.26	48.63	49.49	49.76	50.27	50.44	50.67	51.18	51.12	51.2	51.03	50.95
800	44.69	47.86	48.88	49.29	49.53	49.95	50.3	50.7	50.87	50.81	50.81	50.52
1000	43.86	46.58	47.78	48.38	49.03	49.58	49.86	50.63	50.65	50.32	49.7	49.16
1300	42.52	45.81	46.79	47.12	47.62	48.29	48.62	49.81	49.65	49.52	49.26	48.36
1600	40.72	43.68	44.99	45.83	46.45	47.01	47.55	48.51	48.29	48.29	47.97	47.06
2000	38.82	41.66	42.74	43.51	44.57	44.99	45.69	47.29	46.96	46.81	46.25	45.17
2500	35.65	38.07	39.45	40.53	41.54	41.97	42.54	45.33	44.97	44.81	43.91	42.87
3200	30.2	32.99	34.62	35.71	36.18	36.96	37.87	42.08	41.68	41.56	41.14	40.08
4000	20.96	25.23	27.48	28.54	29.14	30.18	31.37	37.57	37.11	36.65	36.24	35.15
5000	0	0	10.5	15.59	17.72	19.86	21.97	31.57	31.56	31.52	30.59	29.5
6300	0	0	0	0	0	0	0	22.21	22.32	21.87	20.53	18.1
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	54.05	57.53	58.82	59.5	59.9	60.3	60.54	60.61	60.78	60.81	60.75	60.45
PNL	63.08	68.37	67.85	68.44	69.01	69.69	70.16	70.09	69.99	69.91	69.53	68.77

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	40.68	39.27	37.68	0	0	0	0	0	98.68
160	48.09	48.43	47.91	48.52	47.84	47.64	39.57	37.95	32.25	30.43	28.79	111.61
200	49.8	50.59	50.73	50.05	49.34	48.22	45.73	43.76	41.83	39.36	35.67	112.96
250	48.39	48.13	47.77	47.45	48.89	45.37	47.02	44.58	41.29	37.68	29.55	111.93
320	50.02	50.14	50.1	49.78	48.99	47.81	43.6	41.08	37.54	34.38	27.14	113.1
400	51.29	51.09	50.8	49.67	48.08	46.12	45.77	43.33	40.14	36.47	30.55	113.87
500	51.17	50.78	50.07	49.02	47.34	45.65	43.89	41.27	38.58	35.3	31.72	113.72
630	50.74	50.27	49.18	47.68	45.99	44	43.37	40.21	36.87	33.04	28.59	113.27
800	50.04	49.08	47.99	46.79	45.41	43.37	41.58	38.47	34.98	31.18	26.96	112.64
1000	48.5	47.9	47.26	46.12	44.4	42.21	40.85	37.44	33.71	29.63	24.72	111.86
1300	47.81	47.19	46.13	44.84	43.13	40.78	39.62	38.37	32.52	27.69	21.89	110.67
1600	46.16	45.45	44.47	42.88	40.93	38.44	37.71	34.23	30.16	25.3	18.89	109.4
2000	44.43	43.64	42.45	40.78	38.65	38.17	35.48	31.8	27.47	22.17	0.29	107.61
2500	41.91	40.97	39.66	37.84	35.68	32.91	33.13	29.44	24.84	18.86	0	105.08
3200	38.78	37.18	35.34	33.4	31.19	28.19	29.52	25.33	18.05	0	0	101.33
4000	33.91	32.25	30.34	28.11	25.17	19.39	24.39	16.43	0	0	0	96.12
5000	28.06	26.02	22.8	17.79	0	0	0.37	0	0	0	0	89.66
6300	11.32	0	0	0	0	0	0	0	0	0	0	79.03
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.17	59.92	59.38	58.61	57.41	55.93	54.01	51.44	48.29	44.99	40.1	123.13
PNL	68.13	67.46	66.46	65.28	63.51	61.69	59.2	58.1	51.84	46.62	39.77	87.57

NASA Lewis Allison AST Jet Noise Test 1996

rdg	405
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.26
m01	0.29987
pamb	14.2447
tamb	497.795
rhumid	86.76
winds1	0
nprc	1.393
nprb	1.444
ptc	19.8429
ptb	20.5693
wacic	2.9
wacib	12.766
ttc	1173.64
ttb	500.913
ptmix	20.4349
ttmix	625.445
mixpnd	0.664902
gravixp	12771.9
badchan	(17,24,25,26)
bkgnd	392
escdate	03 Dec.96
esctime	21:43:28
DADSdate	03.Dec.96
DADStime	21:43:28
btchdate	03.Dec.96
btchtime	21:43:28

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:45:32 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	160	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	66.58	67.37	68.67	69.75	70.35	70.61	70.67	70.79	70.74	70.72	70.79	70.99	71.33	71.85	72.54	73.15	73.43	73.38	73.47	75.07	113.27
100	0	0	0	54.23	54.9	55.37	55.7	55.93	56.1	56.24	56.37	56.51	56.67	56.86	57.13	57.51	58.04	68.96	69.09	69.02	69.48	70.78	72.44	105.13
130	62.34	67.64	67.96	67.92	69.18	68.57	67.51	67.43	67.61	67.64	67.67	68.07	68.66	69.25	69.74	70.08	70.26	70.58	71.22	72.18	73.4	74.64	76.45	112.27
160	66.43	67.6	69.47	68.99	69.75	69.37	68.94	68.8	68.88	68.91	68.82	69.05	69.88	71.37	72.76	73.29	72.78	71.46	70.91	72.71	74.81	75.36	75.48	113.6
200	70.06	71.53	72.03	72.61	72.16	71.94	71.87	71.39	71.37	71.41	71.24	71.18	71.88	72.27	72.48	72.96	73.42	73.6	73.67	73.84	74.19	74.61	74.4	115.23
250	73.26	75.09	75.84	75.92	75.64	75.21	74.78	74.48	74.37	74.46	74.7	75.04	75.4	75.76	76.07	76.3	76.41	76.36	76.18	75.89	75.61	75.48	75.69	118.33
320	74.36	76.25	76.9	76.87	76.53	76.11	75.76	75.59	75.68	75.99	76.38	76.78	77.12	77.36	77.47	77.47	77.36	77.17	76.86	76.37	75.68	75	74.79	119.45
400	75.2	77.05	77.65	77.75	77.73	77.65	77.57	77.52	77.52	77.6	77.75	77.95	78.14	78.24	78.19	77.97	77.58	77.05	76.42	75.75	75.07	74.6	74.74	120.4
500	76.38	78.46	79.24	79.33	79.11	78.78	78.52	78.41	78.52	78.81	79.14	79.45	79.73	79.9	79.92	79.73	79.38	78.87	78.21	77.38	76.5	75.76	75.31	121.83
630	77.76	80.38	80.41	79.93	79.98	80.27	80.47	80.49	80.26	79.93	79.8	79.98	80.33	80.67	80.86	80.83	80.5	79.89	79.34	79.03	78.32	77.05	76.25	123.01
800	79.1	81.57	81.64	81.23	81.17	81.34	81.56	81.81	81.89	81.95	82.15	82.29	82.32	82.26	82.1	81.78	81.27	80.53	79.65	78.79	77.96	77.2	76.78	124.36
1000	80.16	82.48	82.62	82.26	82.17	82.35	82.6	82.87	83.08	83.15	83	82.7	82.57	82.77	82.81	82.31	81.55	80.73	79.98	79.18	78.38	77.85	77.24	125.15
1300	81.21	82.6	82.55	82.31	82.63	82.7	82.91	83.22	83.51	83.66	83.49	83.29	83.41	83.69	83.46	82.46	81.29	80.28	79.44	78.68	77.86	77.01	76.45	125.51
1600	80.93	83.28	83.25	82.88	83.09	83.37	83.55	83.76	84.08	84.36	84.11	83.59	83.89	84.4	84.16	83.03	81.68	80.54	79.68	78.94	78.06	77.1	76.51	126.05
2000	81.14	83.3	83.27	83.1	83.66	83.34	83.46	83.86	84.19	84.37	84.13	83.91	84.01	84.45	84.37	83.34	81.91	80.5	79.38	78.58	77.76	76.88	76.42	126.16
2500	80.78	82.53	82.31	82.13	82.97	83.25	83.55	83.43	83.35	83.72	83.82	83.57	83.51	84.03	84.13	83.06	81.61	80.22	79.03	77.97	77.01	76.2	75.99	125.69
3200	80.39	81.89	81.66	81.49	82.14	82.4	83.01	82.83	82.9	83.27	83.29	83.07	82.96	83.3	83.38	82.53	81.14	78.53	78.14	77.13	76.29	75.53	75.37	125.07
4000	78.92	81.03	80.84	80.53	81.27	81.45	82.28	81.93	81.79	81.95	81.69	82.09	81.79	81.63	81.34	80.6	79.48	76.11	76.85	75.79	74.86	74.08	74.02	123.87
5000	77.39	79.52	79.5	79.01	79.21	79.84	81.23	80.97	80.36	80.61	80.76	81	80.44	79.99	79.57	78.66	77.48	76.22	75.05	74.03	73.14	72.49	72.64	122.44
6300	76.19	78.54	78.7	77.85	78.03	78.77	80.26	79.49	78.93	79.32	79.1	79.43	79.09	78.72	78.12	76.99	75.63	74.26	73.14	72.38	71.65	71.11	71.57	121.12
8000	75.34	77.51	77.4	76.88	77.08	77.61	79.48	78.49	77.59	77.86	78.33	78.76	77.78	77.16	76.5	75.07	73.53	72.32	71.51	70.88	70.16	69.64	70.34	119.95
10000	73.67	74.83	74.08	74.2	75.66	75.85	76.86	75.55	74.34	74.62	75.35	74.88	74.04	73.8	73.42	72.25	70.7	69.1	67.86	67.04	66.43	66.04	66.57	117.06
OASPL	90.91	92.96	92.98	92.72	93.03	93.17	93.59	93.55	93.56	93.76	93.74	93.66	93.65	93.86	93.77	93.06	92.11	91.16	90.37	88.73	89.12	88.57	88.52	135.89

NASA Lewis Allison AST Jet Noise Test 1995

rdg	405
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	815.26
m01	0.29987
pamb	14.2447
tamb	497.795
rhumid	86.78
winds1	0
nprc	1.393
nprb	1.444
ptc	19.8429
ptb	20.5693
wactc	2.9
wactb	12.768
ttc	1173.64
ttb	500.913
ptmix	20.4349
ttmix	625.445
mixpnd	0.664902
gravisp	12771.9
badchan	(17,24,25,26)
bkgnd	392
escdate	03.Dec.96
esctime	21:43:28
DADSdate	03.Dec.96
DADStime	21:43:28
btchdate	03.Dec.96
btchtime	21:43:28

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 04:45:42 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1506.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	45.19	42.95	40.75	38.37	50.31	50.79	49.68	48.86	48.29
80	0	0	42.29	43.43	48.17	47.88	47.84	35.87	0	0	43.01	42.91
100	42.73	45.97	45.77	48.31	47.39	48.21	46.69	47.32	47.25	48.12	47.41	48.79
130	44.48	45.55	48.88	49.83	50.61	51.37	50.93	48.61	48.17	49.92	49.07	49.11
160	48.5	51.41	52.09	52.98	53.79	54.39	54.7	51.11	51.61	51.13	51.77	52.33
200	51.45	53.8	56.2	55.93	56.07	55.87	55.32	54.05	54.83	55.55	56.08	55.83
250	51.72	54.25	55	55.13	55.73	56.07	56.45	54.98	54.72	54.49	54.48	54.94
320	51.92	55.12	56.39	57.06	57.03	57.19	56.96	56.6	57	57.02	56.94	56.73
400	52.74	55.29	56.85	57.34	57.88	58.21	58.72	57.14	57.4	57.41	57.77	57.78
500	53.58	56.85	57.63	57.58	57.89	58.85	58.12	58.83	58.68	58.67	58.83	58.95
630	54.5	57.71	58.38	58.48	58.93	59.41	59.91	59.7	59.81	59.82	59.79	58.73
800	54.49	57.58	58.27	58.52	58.79	59.28	59.73	60.29	60.8	60.48	60.07	59.4
1000	55.06	57.53	57.95	58.16	59.18	59.51	59.77	60.17	60.42	60.57	60.37	59.83
1300	53.9	56.91	57.67	57.88	58.59	59.01	59.29	60.15	60.54	60.71	60.14	59.33
1600	52.65	55.57	56.03	56.4	57.48	57.61	58.14	59.59	59.73	59.91	59.38	58.76
2000	50.56	53.24	53.76	54.07	55.14	55.55	56.26	58.14	57.98	58.05	57.95	57.39
2500	47.15	49.72	50.22	50.71	52.02	52.44	53.37	56.12	56.02	56.2	55.88	55.06
3200	41.29	44.75	45.74	45.85	46.78	47.59	48.91	53	52.7	52.5	52.12	51.71
4000	32.98	36.82	38.09	38.44	39.27	40.55	42.39	48.66	47.84	47.74	47.12	46.72
5000	20.24	25.81	28.02	28.81	29.89	31.34	33.55	41.8	41.17	41.12	40.49	40.04
6300	0	0	0	0	0	7.72	14.51	32.78	31.84	31.4	31.15	30.31
8000	0	0	0	0	0	0	0	10.08	4.99	-2.14	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	63.93	66.79	67.83	67.99	68.55	68.95	69.28	69.55	69.71	69.78	69.59	69.25
PNL	74.46	77.38	78.14	78.8	79.45	79.77	80.25	80.38	80.3	80.37	80.21	79.78

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	47.61	45.28	42.68	40.65	38.8	45.34	48.42	47.12	44.6	42.03	44.34	111.05
80	42.93	46.83	46.58	46.59	45.98	47.14	44.28	42.88	41.77	41.16	40.07	109.41
100	46.86	49.2	50.7	50.36	48.79	47.68	46.47	45.99	45.62	44.94	44.23	112.77
130	48.68	50.07	49.83	50.72	50.04	48.91	45.99	46.45	46.68	45.08	42.45	113.82
160	52.23	52.74	52.03	52.67	51.91	52.35	48.82	47.41	45.97	44.2	42.63	116.4
200	56.2	56.33	56.11	56.12	54.41	52.78	50.99	49.27	48.27	45.91	42.97	119.1
250	55.2	55.15	54.7	54.28	53.37	51.96	51.46	49.46	47.25	44.18	40.93	118.6
320	57.07	57.1	56.81	56.05	54.97	53.71	50.54	48.4	46.14	43.4	40.78	120.07
400	57.84	57.8	57.28	58.55	55.43	53.79	51.69	49.48	46.88	43.66	39.59	120.72
500	58.72	58.27	57.72	58.83	55.42	53.87	52.13	50.39	47.72	43.78	39.52	121.48
630	59.34	58.85	58.2	57.15	55.58	53.51	51.8	49.29	46.28	42.77	38.06	122.13
800	59.26	59.21	58.49	58.69	54.48	52.23	51.38	48.77	45.83	41.72	36.77	122.17
1000	59.36	59.2	58.12	58.46	54.25	51.81	49.91	47.29	44.05	39.92	34.18	122.13
1300	59.07	59.18	58.56	58.4	53.84	51	49.35	46.56	42.99	38.22	32.13	121.9
1600	58.3	57.91	57.08	55.16	52.58	49.71	48.08	45.03	41.3	36.38	29.78	120.85
2000	56.5	56.3	55.63	53.53	50.67	47.38	46.55	43.02	38.8	33.48	26.42	119.07
2500	54.28	53.44	52.07	50.04	47.27	43.91	43.93	40.2	35.75	29.87	21.69	116.45
3200	50.51	49.18	47.57	45.2	42.21	38.65	40.12	35.98	30.84	24.02	0	112.51
4000	45.31	43.78	41.84	39.08	35.47	31.33	34.58	29.77	23.37	0	0	107.15
5000	38.51	36.6	34.05	30.45	25.78	19.32	26.51	19.06	0	0	0	99.99
6300	27.62	24.71	20.54	8.83	0	0	0	0	0	0	0	89.72
8000	0	0	0	0	0	0	0	0	0	0	0	86.67
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	68.99	68.81	68.19	66.95	65.32	63.63	61.94	59.9	57.68	54.93	52.53	131.87
PNL	79.15	78.88	78.07	76.32	73.97	71.49	68.74	65.71	62.34	58.05	52.79	78.17

NASA Lewis Allison AST Jet Noise Test 1996

rdg	406
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	974.29
m01	0.29861
pamb	14.248
tamb	497.335
rhumid	87.48
winds1	0
nprc	1.541
nprb	1.615
ptc	21.9562
ptb	23.0105
wactc	3.438
wactb	15.199
ttc	1313.91
ttb	500.347
ptmix	22.818
ttmix	650.426
mixpnd	0.779193
grsvixp	18157.8
badchan	(23,25,26)
bkgnd	392
escdate	03.Dec.96
esctime	21:57:36
DADSdate	03.Dec.96
DADStime	21:57:36
btchdate	03.Dec.96
btchtime	21:57:36

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 04:49:00 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	69.52	68.56	68.67	69.02	69.61	70.26	70.91	71.46	71.99	71.99	71.84	71.74	71.76	71.91	72.32	73.09	74.13	75.44	76.99	78.77	80.89	83.81	115.94
100	68.9	70.13	70.89	71.31	71.52	71.63	71.71	71.79	71.89	72.01	72.17	72.41	72.74	73.19	73.75	74.42	75.22	76.15	77.2	78.37	79.73	81.46	83.83	117.15
130	69.84	71.11	71.2	71.25	71.74	72.39	72.49	71.94	71.35	71.08	71.26	71.79	72.6	73.61	74.74	75.93	77.11	78.2	79.17	80.05	80.91	81.96	83.46	117.94
160	72.52	73.91	74.36	74.52	74.66	74.91	74.79	74.53	74.24	74.12	74.23	74.51	74.9	75.36	75.92	76.54	77.3	78.28	79.37	80.41	81.29	82.06	82.95	119.2
200	72.87	74.66	75.9	76.64	76.86	76.73	76.42	76.07	75.8	75.86	75.73	75.99	76.52	77.51	78.72	79.51	78.66	79.85	80.09	80.3	80.43	80.58	80.96	120.45
250	75.87	77.62	78.4	78.59	78.44	78.14	77.83	77.61	77.54	77.67	78.02	78.52	79.11	79.73	80.36	81	81.46	81.16	80.96	81.26	81.66	81.6	81.1	122.16
320	77.47	79.1	79.72	79.9	79.91	79.83	79.73	79.62	79.56	79.57	79.67	79.92	80.32	80.81	81.26	81.67	81.9	81.92	81.71	81.28	80.75	80.16	79.24	123.23
400	78.67	80.29	80.87	81.06	81.27	81.46	81.72	81.96	82.24	82.5	82.72	82.89	82.96	82.96	82.91	82.75	82.51	82.12	81.54	80.78	79.88	79.03	78.49	124.84
500	80.37	82.23	82.49	82.35	82.34	82.48	82.72	82.99	83.24	83.43	83.54	83.49	83.36	83.49	83.79	84.01	83.96	83.59	82.94	82.03	80.93	79.8	78.8	125.88
630	80.52	82.57	83.4	83.75	83.91	83.98	84.01	84.06	84.13	84.24	84.41	84.63	84.86	85.05	85.16	85.12	84.86	84.39	83.61	82.55	81.26	79.94	78.93	126.96
800	82.35	84.78	84.99	84.9	85.06	85.31	85.35	85.26	85.28	85.42	85.64	85.83	86.12	86.19	86.16	85.97	85.5	84.67	83.63	82.54	81.48	80.55	80.02	128.07
1000	83.33	85.46	85.49	85.45	85.59	85.81	86.23	86.7	86.98	86.99	86.91	86.89	86.98	86.95	86.92	86.85	86.45	85.48	84.2	83.01	81.95	81.12	80.88	129
1300	84.41	86.18	85.86	86.12	86.67	87.25	87.74	88.07	88.1	87.95	87.88	87.89	87.88	87.76	87.47	86.92	86.05	85.04	84	82.98	81.95	81.04	80.61	129.81
1600	84.33	86.21	86.62	87.03	87.39	87.91	88.31	88.61	88.63	88.46	88.35	88.5	88.85	88.63	88.3	87.83	86.56	85.19	84	83.04	82.09	81.17	80.81	130.41
2000	84.84	86.77	86.82	87.19	87.77	88.43	88.72	88.83	88.6	88.7	88.82	88.85	88.95	88.81	88.5	87.92	86.78	85.48	84.18	82.94	81.85	81.05	80.78	130.66
2500	84.45	86.39	86.45	87.04	87.89	88.25	88.82	88.55	88.35	88.4	88.65	89.13	89.26	89.21	88.89	88.01	86.53	85.11	83.92	82.91	81.96	81.15	80.93	130.65
3200	83.67	85.31	86.04	86.71	87.36	87.77	88.27	88.32	88.23	88.28	88.36	88.49	88.74	88.49	88.13	87.56	86.31	84.95	83.79	82.78	81.84	81.06	80.97	130.21
4000	82.43	84.2	84.9	85.84	86.18	86.7	87.27	87.02	86.97	87.09	87.48	87.55	87.64	87.13	86.58	86.05	85.09	83.93	82.8	81.74	80.74	79.97	80.1	129.08
5000	81.05	82.72	83.81	84.41	84.19	85	85.91	85.68	85.35	85.62	85.99	86.05	85.97	85.54	85.02	84.33	83.2	82.07	81.03	80.03	79.04	78.32	78.54	127.5
6300	79.55	81.45	82.46	83.22	83.28	83.74	84.52	84.39	84.12	84.23	84.29	84.35	84.27	83.82	83.16	82.28	81.03	79.9	78.94	77.98	77.03	76.44	76.97	125.98
8000	78.24	80.05	81.39	82.24	82.13	82.55	83.43	83.17	82.76	82.88	83.11	82.93	82.49	81.83	81.09	80.16	78.98	78.06	77.35	76.47	75.44	74.71	75.25	124.58
10000	75.97	77.1	78.3	79.71	80.26	80.56	80.46	79.91	79.43	79.37	79.54	78.65	78.21	77.86	77.49	76.99	76.1	74.94	73.85	72.97	71.91	70.86	71.27	121.41
OASPL	94.3	96.19	96.58	97.01	97.36	97.77	98.2	98.21	98.16	98.21	98.33	98.45	98.57	98.44	98.21	97.62	97.04	96.17	95.34	94.63	94.04	93.72	94.07	140.4

NASA Lewis Allison AST Jet Noise Test 1996

rdg	406
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	TONG
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	974.29
m01	0.29861
pamb	14.248
tamb	497.335
rhumid	87.48
winds1	0
nprc	1.541
nprb	1.615
ptc	21.9582
ptb	23.0105
wactc	3.438
wactb	15.199
ttc	1313.91
ttb	500.347
ptmix	22.816
ttmix	850.426
mixprnd	0.779193
gravisp	18157.8
badchan	(23,25,26)
bkgnd	392
eacdate	03.Dec.96
eactime	21:57:36
DADSdate	03.Dec.96
DADStime	21:57:36
btchdate	03.Dec.96
btchtime	21:57:36

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 04:49:11 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	45.1	47.08	47.15	50.1	49.53	49.38	49.39	50.86	52.66	51.63	51.17	50.62	52.53	51.38	50.54	50.15	50.01	52.71	50.7	50.78	50.09	49.55	52.91	116.05
80	45.37	49.75	50.37	49.49	51.4	52.28	52.98	51.72	50.43	49.69	51.57	51.23	50.54	52.64	53.14	53.61	53.19	54.64	52.69	52.2	51.59	51.11	50.86	117.22
100	49.38	49.91	51.79	51.36	51.37	53.52	53.1	51.83	50.92	52.03	51.63	53.09	52.62	52.26	53.92	53.83	53.11	54.54	54.38	53.87	53.14	52.25	51.21	118.09
130	50.34	52.45	54.3	54.82	55.75	56.48	55.64	54.35	53.32	54.19	53.7	54.72	54.61	55.85	55.85	57	56.18	55.13	54.44	54.15	53.29	51.86	49.95	119.77
160	51.45	53.99	54.88	56.07	56.61	57.1	57.75	55.79	55.79	54.99	55.13	54.44	55.52	56.89	57.02	58.03	57.69	57.2	55.11	53.9	52.2	50.24	48.88	120.64
200	54.34	56.44	58.19	59.22	58.64	59.86	59.33	57.18	58.15	58.94	59.45	59.26	59.56	59.69	59.75	59.08	58.71	57.5	55.71	54.86	54.3	52.12	48.19	122.89
250	55.25	57.48	57.84	58.07	59.01	59.58	60.36	59.01	58.41	57.95	58.01	58.65	59.01	59.39	59.47	59.24	58.04	57.16	56.32	54.4	52.05	49.11	45.52	122.6
320	55.41	58.42	59.47	60.32	60.45	61	61.26	61.06	61.84	62.13	62.06	61.77	61.5	61.38	61.01	60.48	59.7	58.16	55.65	53.45	50.83	47.78	44.1	124.4
400	56.56	58.8	59.88	60.63	61.51	61.96	62.19	61.73	61.86	61.91	62.09	61.87	61.61	61.27	60.98	60.61	59.84	58.32	56.32	54.12	51.22	47.63	43.17	124.68
500	56.5	59.26	60.74	61.41	61.92	62.76	63.08	62.38	62.74	63.03	63.08	63.06	62.88	62.6	62.24	61.37	60.03	58.24	56.39	53.68	50.69	46.75	42.24	125.48
630	57.74	61.12	61.6	62.04	62.53	62.89	63.54	63.15	63.06	63.25	63.48	63.72	63.58	63.03	62.47	61.54	60.1	58.15	55.83	53.05	49.62	46.15	41.3	125.91
800	57.91	61.12	61.58	61.95	62.84	63.73	64.51	64.12	64.59	64.47	64.34	63.96	63.65	63.02	62.1	61.02	59.27	56.97	55.8	52.8	49.21	45.27	40.37	126.25
1000	57.95	60.28	61.04	62.25	63.08	63.87	64.53	65.01	65.06	64.84	64.51	64.43	64.18	63.67	62.65	61.29	59.19	56.6	54.44	51.62	48.1	43.71	38.12	126.49
1300	57.32	60.13	61.04	61.86	62.78	63.7	64.35	65	64.98	64.73	64.53	64.31	64.13	63.37	62.42	60.81	58.57	55.92	53.77	50.86	47.04	42.39	36.49	126.3
1600	56.48	59.3	60.02	60.89	62.11	62.92	63.52	64.33	64.28	64.22	64.03	63.81	63.68	62.87	61.74	60.03	57.4	54.49	52.85	49.42	45.44	40.58	34.15	125.6
2000	54.09	56.92	58.01	59.2	60.33	60.89	61.59	63.28	62.99	62.82	62.84	62.78	62.29	61.52	60.37	58.66	55.82	52.77	51.41	47.94	43.75	38.5	31.42	124.13
2500	50.43	53.12	54.6	56.01	57.07	57.75	58.4	61.62	61.4	61.11	60.83	60.51	60.04	58.73	57.17	55.38	52.78	49.63	49.51	45.81	41.29	35.41	27.5	121.68
3200	44.75	47.95	49.74	51.24	51.58	52.7	53.64	58.14	57.9	57.77	57.65	57.06	56.35	54.79	53.01	50.81	47.95	44.47	46.05	41.89	36.7	29.99	19.54	117.79
4000	36.74	39.83	42.2	43.93	44.67	45.6	46.89	53.36	52.8	52.68	52.44	51.68	50.62	49.23	47.2	44.41	40.95	37.01	40.51	35.83	29.84	20.77	0	112.19
5000	24.4	29.03	32	34.18	35.16	36.22	37.62	46.7	46.28	46.05	45.54	44.67	43.53	41.4	36.81	35.63	31.54	26.74	32.49	26.74	16.92	0	0	104.95
6300	0	0	8.08	15.78	18.4	20.53	21.92	37.46	36.87	36.46	35.93	34.57	32.38	29.64	26.3	21.56	11.99	0	20.07	0	0	0	0	94.87
8000	0	0	0	0	0	0	0	21.28	19.67	18.52	15.87	6.41	0	0	0	0	0	0	0	0	0	0	0	76.14
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	67.39	70.12	71.03	71.8	72.56	73.24	73.75	73.99	74.06	74.01	73.94	73.82	73.62	73.16	72.5	71.81	70.16	68.63	66.94	65.02	63.03	60.77	59.16	136.23
PNL	78.28	81.07	82.03	82.94	83.91	84.67	85.24	85.27	85.13	85.02	84.97	84.61	84.44	83.76	82.77	81.39	79.15	76.74	74.08	70.96	67.38	63.24	58.37	83

NASA Lewis Allison AST Jet Noise Test 1996

rdg	407
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	TONG
nozbid	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1018.88
m01	0.29815
pamb	14.2502
tamb	497.292
rhumid	87.51
winds1	0
nprc	1.739
nprb	1.819
ptc	24.7811
ptb	25.9211
wactc	3.618
wactb	17.427
ttc	1399.01
ttb	501.797
ptmix	25.7251
ttmix	656.043
mixpnd	0.811358
grsvlsp	21442.3
badchan	(26)
bkgnd	392
escdate	03.Dec.96
esctime	22:09:48
DADSdate	03 Dec 96
DADStime	22:09:48
btchdate	03.Dec 96
btchtime	22:09:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 04:52:12 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	71.65	72.78	73.47	73.89	74.16	74.33	74.48	74.63	74.82	75.07	75.4	75.81
100	73.82	74.75	75.45	75.66	75.93	75.72	75.57	75.72	76.2	76.86	77.49	77.97
130	75.09	75.71	75.91	75.88	75.75	75.61	75.5	75.49	75.59	75.83	76.23	76.78
160	76.17	77.91	78.67	78.82	78.64	78.31	77.96	77.67	77.51	77.53	77.76	78.25
200	77.32	79.02	79.93	80.33	80.37	80.15	79.81	79.49	79.3	79.31	79.59	80.13
250	79.25	80.58	81.16	81.37	81.44	81.51	81.6	81.67	81.75	81.93	82.27	82.79
320	81.49	82.64	82.89	82.78	82.61	82.54	82.54	82.54	82.58	82.83	83.35	84.16
400	82.04	83.2	83.57	83.7	83.89	84.25	84.7	85.11	85.43	85.66	85.78	85.85
500	83.33	84.51	84.84	84.92	84.92	84.94	85.02	85.19	85.46	85.86	86.37	86.96
630	84.23	85.81	86.23	86.48	86.67	86.64	86.6	86.7	87.02	87.29	87.42	87.83
800	85.9	87.05	86.89	87.17	87.71	87.88	87.75	87.67	88.33	88.85	89.24	89.51
1000	86.74	87.99	88.4	88.61	88.79	88.99	89.21	89.42	89.63	89.85	90.11	90.45
1300	88.05	89.14	89.46	89.87	90.16	90.24	90.1	90.25	90.67	91.14	91.31	91.56
1600	88.23	89.74	89.98	90.34	90.94	91.23	91.04	91.16	91.54	91.79	92.06	92.59
2000	97.93	90.74	90.89	91.27	91.6	91.73	91.71	91.64	92.08	92.59	93.07	93.64
2500	89.85	90.97	91.48	91.88	91.9	92.06	92.14	92.25	92.57	93.14	93.96	94.51
3200	89.78	91.52	91.95	91.89	91.89	92.11	92.51	92.81	93.46	94.09	94.5	95.11
4000	90.15	91.7	92.23	92.06	91.95	92.33	92.84	93.1	93.82	94.68	95.49	96.4
5000	103.32	91.45	91.82	91.54	91.27	91.71	92.49	92.94	93.51	94.44	95.36	96.19
6300	91.52	91.52	91.87	91.38	90.93	91.13	91.82	92.42	92.95	93.78	94.57	95.23
8000	103.89	91.71	92.05	91.84	91.13	91	91.73	91.88	92.03	92.64	93.45	94.29
10000	101.32	89.83	89.56	90.12	90.1	89.53	89.27	89.22	89.2	89.48	90.14	90.45
OASPL	108.65	101.73	102.05	102.11	102.11	102.25	102.52	102.72	103.15	103.75	104.36	104.99

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.33	76.96	77.72	78.61	79.64	80.8	82.13	83.67	85.46	87.66	90.71	121.75
100	78.39	78.85	79.44	80.22	81.23	82.48	84.01	85.83	87.82	89.96	92.39	123.89
130	77.48	78.29	79.22	80.24	81.34	82.55	83.86	85.3	86.78	88.29	89.82	122.91
160	79.02	80.02	81.22	82.54	83.89	85.19	86.43	87.56	88.54	89.35	89.86	124.86
200	80.84	81.86	82.52	83.38	84.21	85	85.77	86.54	87.26	87.91	88.42	125.14
250	83.43	84.13	84.84	85.52	86.14	86.68	87.16	87.58	87.89	88.1	88.07	126.77
320	84.86	85.49	86.17	86.85	87.33	87.59	87.59	87.34	86.94	86.52	86.14	127.6
400	85.98	86.26	86.74	87.29	87.69	87.78	87.46	86.74	85.83	85	84.49	128.53
500	87.48	87.91	88.25	88.47	88.5	88.29	87.8	87.04	86.02	84.92	84	129.35
630	88.32	88.82	89.27	89.48	89.34	88.83	87.93	86.65	85.33	84.26	83.64	130.37
800	89.55	89.52	89.57	89.62	89.44	89.09	88.55	87.78	86.45	84.77	83.76	131.33
1000	90.75	90.49	90.22	90.31	90.42	90.2	89.57	88.74	87.48	85.86	84.74	132.41
1300	91.61	91.46	91.33	91.15	90.62	90.12	89.53	88.52	87.03	85.45	84.76	133.31
1600	92.79	92.55	92.04	91.51	90.98	90.14	89.21	88.45	87.34	85.97	85.56	134.03
2000	93.39	92.99	92.47	91.76	91.07	90.24	89.24	88.15	87.05	86.14	85.61	134.99
2500	94.22	94.02	93.25	91.96	91.06	90.26	89.29	88.27	87.22	86.36	86.16	135.2
3200	94.77	94.32	93.83	93.07	92.1	90.95	89.74	88.63	87.6	86.82	86.82	135.74
4000	95.82	94.89	94.01	93.25	92.58	91.51	90.1	88.83	87.71	86.86	87.24	136.26
5000	95.39	94.48	93.6	92.61	91.79	90.85	89.72	88.48	87.3	86.52	86.92	136.84
6300	94.75	93.85	92.83	91.75	90.68	89.5	88.29	87.25	86.26	85.57	86.04	135.29
8000	93.59	92.45	91.06	89.71	88.88	88.02	86.97	85.95	84.89	84.07	84.51	135.69
10000	89.68	89.01	88	86.75	85.93	84.83	83.53	82.47	81.38	80.4	80.5	133.18
OASPL	104.68	104.18	103.64	103.07	102.6	102.03	101.36	100.76	100.24	100.06	100.66	146.16

[Flyover data point L for 50%L, 12TH (file T407.xls) not processed]

50%L, 16UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	120
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
emixc	35.02
ambb	78.39
scale	4
vid	562.61
m01	0.06797
pamb	14.2635
tamb	502.375
rhumid	74.15
winds1	0
nprc	1.171
nprb	1.213
ptc	16.7026
ptb	17.3016
wactc	1.256
wactb	10.336
ttc	1097.13
ttb	495.766
ptmix	17.2367
ttmix	560.924
mixprnd	0.484519
grsvixp	6521.78
badchan	(26)
bkgnd	114
escdate	18.Nov.96
esctime	19:44:49
DADSdate	97.06.19
DADStime	19:44:49
bichdate	18.Nov.96
bichtime	19:44:49

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Tue Aug 19 16:42:10 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.14	62.47	63.46	64.16	64.67	65.04	65.33	65.6	65.92	66.31	66.64	67.52	68.31	69.17	70.06	70.93	71.75	72.46	73.11	73.61	74.01	74.36	74.91	111.86
100	63.2	64.57	65.45	65.96	66.24	66.33	66.33	66.34	66.4	66.6	66.99	67.59	68.36	69.23	70.16	71.09	71.98	72.78	73.46	74	74.39	74.72	75.2	112.3
130	62.73	63.16	63.61	64.07	64.55	65.05	65.59	66.17	66.8	67.48	68.2	68.95	69.7	70.44	71.13	71.74	72.27	72.69	72.99	73.16	73.23	73.27	73.53	112.21
160	63.7	64.55	65.23	65.84	66.48	67.2	67.9	68.39	68.63	68.84	69.21	69.66	70.59	71.11	71.5	72.19	73.01	73.76	74.34	74.7	74.79	74.62	74.39	113.39
200	65	65.77	66.35	66.89	67.5	68.21	68.94	69.51	69.87	70.24	70.78	71.52	72.32	73	73.44	73.7	73.86	73.95	73.88	73.51	72.72	71.73	71.01	114.05
250	66.7	67.81	68.7	69.42	70.02	70.54	71.03	71.52	72.06	72.67	73.39	74.2	75.04	75.83	76.47	76.91	77.06	76.89	76.43	75.69	74.73	73.64	72.68	116.69
320	66.67	67.88	68.63	69.58	70.22	70.78	71.31	71.76	72.15	72.6	73.19	73.93	74.74	75.51	76.12	76.46	76.43	75.98	75.19	74.16	73	71.76	70.74	116.26
400	65.36	67.01	68.39	69.53	70.48	71.29	72.01	72.67	73.3	73.95	74.64	75.23	75.61	76.15	76.39	76.27	75.82	75.07	74.16	73.19	72.14	71.12	70.43	116.56
500	65.83	67.77	69.34	70.56	71.44	71.99	72.37	72.79	73.34	74.07	74.98	76.03	77.04	77.6	78.16	78.09	77.55	76.51	75.14	73.65	72.24	71.06	70.45	117.61
630	64.74	66.9	68.65	70.15	71.13	71.45	71.88	72.04	72.56	73.1	73.85	74.77	75.85	76.65	77.32	77.26	76.34	74.6	72.86	71.55	70.58	69.86	69.47	116.52
800	64.9	67.13	68.75	69.91	70.64	71.09	71.5	72.07	72.78	73.44	74.19	75.08	75.99	76.82	77.2	76.77	75.48	73.64	71.97	70.69	69.67	68.84	68.35	116.39
1000	64.14	66.71	68.46	69.58	70.2	70.6	71.14	71.68	72.21	72.88	73.68	74.56	75.17	75.69	75.96	75.64	74.31	72.63	71.17	70.03	69.12	68.31	67.57	115.6
1300	63.74	66.23	67.86	68.6	69.15	69.63	70.14	70.57	71.16	71.88	72.66	73.38	73.99	74.59	74.99	74.9	73.51	71.55	70.1	69.09	68.12	66.97	65.91	114.6
1600	62.61	65.46	66.99	68.15	68.57	69	69.59	70.15	70.53	70.89	71.44	72.26	73.06	73.83	74.47	74.25	72.34	70.25	68.84	67.82	66.74	65.59	64.67	113.76
2000	61.9	64.63	66.18	67.04	67.63	68.19	68.74	69.07	69.42	70.04	70.92	71.98	72.45	72.76	72.99	72.65	71.21	69.51	67.9	66.42	65.18	64.16	63.46	112.79
2500	60.97	63.86	65.32	66.03	66.36	66.64	67.47	67.69	68.1	68.42	69.45	70.72	71.37	71.62	71.67	71.18	69.55	67.91	66.3	64.91	63.67	62.58	61.95	111.46
3200	60.41	63.29	64.91	65.86	66.28	66.46	66.99	67.37	67.6	67.92	69.03	70.17	70.43	70.54	70.71	70.22	68.38	66.66	64.79	63.46	62.36	61.06	60.15	110.74
4000	59.24	62.43	64.16	65.17	65.51	66	66.68	66.96	67.24	67.61	68.54	69.71	69.71	69.31	69.74	69.41	67.48	65.46	63.5	62.02	60.6	59.36	58.33	110.03
5000	58.02	62.11	63.7	64.28	64.41	65.4	66.52	67.05	67.26	67.42	68.54	70.04	69.64	69.28	69.43	68.92	66.99	64.63	62.41	60.61	59.39	57.86	57.02	109.6
6300	57.24	61.58	63.62	64.49	65.05	66.19	67.56	68.32	68.63	68.85	69.77	71.3	71.17	70.26	69.86	69.42	67.1	64.59	62.35	60.7	58.89	56.76	55.66	110.72
8000	56.45	61.72	64.13	65.16	65.76	66.96	68.33	68.86	69.27	69.73	70.69	72.37	72.1	71.09	70.37	69.96	68.06	65.66	62.93	60.82	58.7	56.31	55.12	111.51
10000	55.36	60.11	62.63	64.3	65.47	66.42	67.14	67.83	68.23	68.65	69.95	70.86	71.06	70.32	69.46	70.51	67.33	65.01	61.87	59.39	57.37	54.82	53.16	110.61
OASPL	76.71	78.68	80.05	81.03	81.68	82.24	82.81	83.29	83.78	84.28	85.07	85.99	86.61	87.13	87.51	87.51	86.84	86.02	85.3	84.68	84.1	83.56	83.31	127.54

NASA Lewis Allison AST Jet Noise Test 1996

rdg	120
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mxbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	562.61
m01	0.06797
pamb	14.2635
tamb	502.375
rhumid	74.15
winds1	0
nprc	1.171
nprb	1.213
ptc	16.7026
ptb	17.3016
wactc	1.256
wactb	10.336
ttc	1097.13
ttb	495.766
ptmix	17.2367
ttmix	580.924
mixpnd	0.484519
grevisp	6521.76
badchan	(26)
bkgnd	114
escdate	18.Nov.96
esctime	19:44:49
DADSdate	97.08.19
DADStime	19:44:49
btchdate	18.Nov.96
btchtime	19:44:49

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 16:42:20 1997

Data amb 14.70 psia
Data amb 537.0 R
Data amb 70.00%
Data scale 1

distance (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	39.36	41.18	42.56	43.58	44.33	44.86	45.25	45.56	45.84	46.14	46.49	46.93
100	41.38	43.23	44.52	45.36	45.86	46.12	46.23	46.26	46.3	46.4	46.61	46.97
130	40.86	41.78	42.83	43.41	44.13	44.8	45.44	46.06	46.65	47.23	47.78	48.28
160	41.75	43.09	44.17	45.1	45.99	46.89	47.66	48.21	48.42	48.52	48.73	49.13
200	42.92	44.19	45.18	46.05	46.91	47.8	48.63	49.23	49.56	49.82	50.18	50.67
250	44.44	46.07	47.37	48.42	49.27	49.97	50.56	51.09	51.6	52.1	52.64	53.2
320	44.17	45.92	47.3	48.39	49.29	50.04	50.66	51.15	51.51	51.85	52.25	52.74
400	42.49	44.7	46.52	48.01	49.23	50.23	51.06	51.76	52.36	52.89	53.39	53.71
500	42.55	45.06	47.09	48.68	49.83	50.57	51.07	51.52	52.03	52.64	53.35	54.13
630	40.93	43.7	45.94	47.84	49.12	49.64	49.97	50.38	50.67	51.28	51.83	52.46
800	40.55	43.42	45.55	47.12	48.16	48.83	49.38	49.98	50.86	51.19	51.73	52.31
1000	39.22	42.45	44.76	46.3	47.25	47.87	48.55	49.13	49.62	50.15	50.72	51.27
1300	38.23	41.43	43.43	44.81	45.7	46.41	47.06	47.54	48.08	48.66	49.22	49.6
1600	36.4	39.98	42.13	43.77	44.54	45.21	45.95	46.57	46.9	47.1	47.41	47.87
2000	34.82	38.38	40.54	41.9	42.86	43.89	44.39	44.78	45.09	45.56	46.17	46.82
2500	32.69	36.48	38.61	39.84	40.59	41.36	42.15	42.62	42.77	42.95	43.68	44.54
3200	30.35	34.2	36.59	38.11	38.99	39.52	40.21	40.65	40.81	40.94	41.75	42.45
4000	26.39	30.71	33.35	35.08	35.94	36.78	37.65	38.02	38.22	38.37	38.91	39.51
5000	19.64	26.39	29.07	30.49	31.25	32.66	34.04	34.64	34.73	34.6	35.3	36.2
6300	0	13.92	21.99	24.54	26.11	27.75	29.44	30.31	30.56	30.45	30.73	31.42
8000	0	0	0	0	8.62	16.35	20.34	21.21	21.44	21.7	22.32	23.01
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	53.19	55.31	56.97	58.28	59.24	59.96	60.57	61.06	61.53	61.96	62.47	63
PNL	58.22	61.58	63.75	65.18	66.17	67.01	67.78	68.28	68.65	69.04	69.61	70.24

distance (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	47.41	47.87	48.27	48.56	48.67	48.57	48.2	47.5	46.42	44.91	42.99	111.79
100	47.42	47.9	48.34	48.86	48.87	48.83	48.5	47.83	46.73	45.17	43.18	112.18
130	48.72	49.05	49.25	49.28	49.09	48.67	47.95	46.9	45.46	43.6	41.31	112.03
160	49.53	49.65	49.54	49.64	49.74	49.63	49.19	48.31	46.88	44.76	41.92	113.12
200	51.15	51.42	51.36	51.01	50.44	49.66	48.55	46.9	44.53	41.54	38.11	113.87
250	53.7	54.07	54.2	54.01	53.41	52.36	50.81	48.77	46.17	42.98	39.14	116.1
320	53.21	53.55	53.63	53.33	52.53	51.15	49.25	46.86	43.99	40.55	36.45	115.46
400	53.74	53.83	53.52	52.73	51.48	49.75	47.67	45.25	42.39	38.98	34.96	115.41
500	54.77	55.06	54.85	54.09	52.71	50.66	48.05	45.03	41.65	37.69	33.54	116.03
630	52.94	53.44	53.5	52.72	50.89	48.07	45.02	42.02	38.91	35.33	30.78	114.47
800	52.81	53.13	52.87	51.68	49.41	46.42	43.32	40.26	36.94	33	27.94	113.87
1000	51.47	51.45	51.04	49.9	47.58	44.68	41.71	38.65	35.24	31.03	25.23	112.55
1300	49.75	49.78	49.47	48.51	46.06	42.8	39.73	36.67	33.02	28.18	21.61	110.97
1600	48.2	48.37	48.27	47.13	44.1	40.62	37.46	34.26	30.28	25.08	17.64	109.51
2000	46.82	46.49	45.92	44.6	41.95	38.76	35.26	31.39	26.97	21.49	2.97	107.78
2500	44.66	44.21	43.39	41.84	38.88	35.58	31.9	27.83	23.01	13.49	0	105.36
3200	42.09	41.44	40.64	38.93	35.59	32.02	27.78	23.39	18.18	0	0	103.05
4000	38.88	37.6	36.92	35.16	31.45	27.24	22.25	11.96	0	0	0	99.82
5000	35.1	33.48	32.26	30.08	25.98	19.46	0	0	0	0	0	95.96
6300	30.24	27.99	25.91	22.37	10.07	0	0	0	0	0	0	90.91
8000	20.53	13.84	0	0	0	0	0	0	0	0	0	81.05
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	63.38	63.62	63.52	62.94	61.83	60.42	58.86	57.12	55.07	52.65	49.65	125.4
PNL	70.32	70.3	69.99	69.07	67.21	64.86	62.13	59.21	55.75	51.36	45.76	66.67

NASA Lewis Allison AST Jet Noise Test 1996

rdg	121
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	798.55
m01	0.0689
pamb	14.2805
tamb	501.511
rhumid	75.48
winds1	0
nprc	1.393
nprb	1.446
ptc	19.8649
ptb	20.6207
wactc	1.998
wactb	14.871
ttc	1161.42
ttb	495.486
ptmix	20.5312
ttmix	574.381
mixpnd	0.879619
gravixp	13470.7
badchan	[26]
bkgnd	114
eacdate	18.Nov.96
eactime	19:55:52
DADSdate	97.08.19
DADStime	19:55:52
blchdate	18.Nov.96
blchtime	19:55:52

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 16:46:26 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.73	72.85	73.84	74.71	75.47	76.11	76.63	77.05	77.36	77.56	77.66	77.69	77.75	77.96	78.42	79.23	80.47	82.15	84.09	86.04	87.79	89.27	90.58	123.29
100	73.41	74.75	75.6	76.09	76.31	76.38	76.38	76.4	76.51	76.8	77.31	78.1	79.11	80.25	81.46	82.71	83.89	84.96	85.89	86.63	87.18	87.58	88.06	123.95
130	74.36	75.3	75.87	76.15	76.24	76.22	76.18	76.18	76.29	76.56	77.04	77.75	78.65	79.66	80.74	81.83	82.88	83.84	84.68	85.35	85.82	86.12	86.46	123.07
160	74.8	75.4	75.92	76.4	76.84	77.28	77.72	78.18	78.67	79.2	79.76	80.37	81.04	81.76	82.51	83.29	84.07	84.81	85.48	86.02	86.41	86.7	87.12	124.33
200	75.74	76.68	77.32	77.74	78	78.18	78.32	78.49	78.72	79.07	79.58	80.26	81.07	81.93	82.79	83.59	84.28	84.82	85.15	85.2	84.97	84.53	84.13	124.17
250	76.13	76.72	77.23	77.68	78.1	78.5	78.91	79.34	79.82	80.35	80.95	81.68	82.59	83.50	84.4	84.78	85.21	85.97	86.36	86.12	85.46	84.52	83.6	125.16
320	76.67	77.47	78.05	78.48	78.79	79.05	79.27	79.5	79.76	80.11	80.8	81.3	82.26	83.19	83.9	84.47	84.79	84.75	84.45	83.92	83.11	82.24	81.77	124.53
400	75.66	76.77	77.82	78.78	79.52	80.06	80.48	80.72	81.04	81.65	82.24	82.73	83.4	84.06	84.47	84.63	84.73	84.73	84.05	82.96	81.92	81.02	80.32	125.01
500	76.42	77.52	78.4	79.12	79.71	80.17	80.57	80.95	81.35	81.8	82.41	83.22	84.08	84.67	85.05	85.45	85.29	84.93	84.26	83.34	82.32	81.33	80.61	125.43
630	76.14	77.93	78.78	79.32	79.72	80.11	80.52	80.68	81.14	81.49	82.09	82.9	83.58	84.19	84.69	84.78	84.54	84.16	83.34	82.47	81.56	80.55	79.93	125.01
800	76.03	77.58	78.83	79.21	79.63	80.11	80.7	81.17	81.52	82.01	82.66	83.43	84.13	84.74	85.17	85.09	84.65	84.04	83.26	82.38	81.39	80.41	79.67	125.27
1000	75.92	77.87	78.97	79.44	79.79	80.33	80.9	81.53	81.89	82.19	82.87	83.72	84.48	85.14	85.54	86.28	84.6	83.62	82.73	81.89	80.93	79.9	79.09	125.42
1300	75.71	77.81	78.8	79.52	80	80.4	80.66	81.35	81.69	82.08	82.88	83.82	84.65	85.59	86.3	85.7	84.55	83.24	82.31	81.64	80.73	79.63	78.66	125.53
1600	75.46	77.77	78.96	79.62	79.86	80.29	80.73	81.22	81.71	82.23	83.04	83.8	84.86	86.17	86.79	85.66	84.16	82.94	81.86	80.85	79.95	79.04	78.16	125.59
2000	74.84	77.56	78.82	79.32	79.53	79.87	80.32	80.89	81.51	82.24	83.15	84.2	85.46	86.74	87	85.69	83.96	82.38	81.07	80.18	79.43	78.48	77.61	125.62
2500	73.97	76.72	77.95	78.42	78.63	79.05	79.72	80.4	81.02	81.67	82.5	83.48	84.79	86.13	86.47	84.98	82.96	81.44	79.98	78.89	77.97	76.88	76.06	124.91
3200	72.89	75.93	77.01	77.53	77.81	78.32	78.91	79.44	79.92	80.42	81.54	82.57	83.74	84.87	84.94	83.48	81.67	80	78.53	77.51	76.55	75.41	74.56	123.73
4000	71.75	74.8	76.05	76.48	76.48	77.21	78.17	78.43	78.78	79.39	80.29	81.25	81.89	82.46	82.59	81.8	80.31	78.46	76.39	75.66	75.11	73.4	71.87	122.15
5000	70.63	74.24	75.14	75.22	74.92	75.99	77.26	77.75	77.86	78.37	79.23	79.97	80.06	80.24	80.14	79.51	78.25	76.8	74.3	73.34	72.45	70.53	69.29	120.57
6300	69.11	72.99	73.86	73.66	73.88	75.23	76.71	77.25	77.57	78.01	78.47	79.04	79.01	78.8	78.46	77.72	76.44	74.8	72.43	71.49	70.31	67.86	66.67	118.49
8000	67.74	72.09	73.17	73.16	73.15	74.53	76.54	77.17	77.49	78.03	78.75	79.19	78.86	78.21	77.42	76.62	75.53	73.96	71.13	70.18	68.95	66.33	64.97	119.13
10000	65.48	69.45	70.37	71.04	71.67	73.02	74.56	75.13	75.57	76.06	76.51	76.42	78.14	75.86	75.43	74.76	73.16	71.29	68.06	66.62	65.72	63.44	61.66	116.9
OASPL	87.86	89.6	90.56	91.09	91.43	91.91	92.45	92.88	93.26	93.74	94.43	95.21	96.02	96.87	97.33	97.05	96.65	96.41	96.23	96.13	96.05	96	96.2	137.49

NASA Lewis Allison AST Jet Noise Test 1996

rdg	121
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
ambc	35.02
amixb	78.39
scale	4
vid	798.55
m01	0.0669
pamb	14.2605
tamb	501.511
rhumid	75.48
winds1	0
nprc	1.393
nprb	1.446
ptc	19.8649
ptb	20.6207
wactc	1.998
wactb	14.871
ttc	1161.42
ttb	495.486
ptmix	20.5312
ttmix	574.361
mixpnd	0.879819
grsvlxp	13470.7
badchan	(28)
bkgnd	114
escdate	18.Nov.96
esctime	19:55:52
DADSdate	97.08.19
DADStime	19:55:52
btchdate	18.Nov.96
btchtime	19:55:52

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 16:46:36 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	49.95	51.55	52.94	54.13	55.12	55.93	56.56	57.01	57.28	57.39	57.32	57.1
100	51.59	53.42	54.67	55.47	55.94	56.18	56.28	56.33	56.41	56.59	56.94	57.49
130	52.49	53.92	54.89	55.49	55.82	55.98	56.03	56.07	56.14	56.31	56.62	57.09
160	52.85	53.94	54.87	55.66	56.35	56.96	57.5	58	58.46	58.88	59.27	59.64
200	53.66	55.1	56.16	56.9	57.42	57.77	58.01	58.21	58.41	58.66	58.99	59.43
250	53.87	54.99	55.91	56.69	57.35	57.93	58.44	58.91	59.35	59.77	60.2	60.67
320	54.16	55.49	56.51	57.28	57.85	58.29	58.62	58.86	59.11	59.36	59.86	60.11
400	52.81	54.46	55.95	57.24	58.28	59.02	59.53	59.82	60.1	60.59	60.99	61.21
500	53.14	54.82	56.16	57.24	58.1	58.76	59.28	59.7	60.06	60.39	60.8	61.33
630	52.33	54.62	56.07	57	57.89	58.3	58.83	59.23	59.45	59.68	60.07	60.59
800	51.88	53.87	55.42	56.42	57.15	57.84	58.56	59.07	59.39	59.75	60.18	60.64
1000	51.01	53.62	55.27	56.16	56.84	57.61	58.3	58.99	59.29	59.46	59.9	60.43
1300	50.19	52.8	54.58	55.72	56.53	57.17	57.79	58.31	58.8	58.85	59.42	60.02
1600	49.24	52.3	54.09	55.23	55.82	56.5	57.08	57.62	58.05	58.43	58.99	59.4
2000	47.76	51.28	53.19	54.2	54.77	55.38	55.97	56.59	57.16	57.74	58.38	59.05
2500	45.67	49.29	51.23	52.23	52.85	53.56	54.39	55.12	55.89	56.17	56.72	57.3
3200	42.84	46.84	48.68	49.81	50.54	51.35	52.12	52.73	53.15	53.47	54.26	54.84
4000	38.92	43.1	45.25	46.36	46.91	48.01	49.17	49.5	49.79	50.17	50.71	51.14
5000	33.55	38.56	40.57	41.52	41.81	43.33	44.9	45.4	45.41	45.7	46.15	46.26
6300	25.22	31.06	33.24	34.33	35.13	37.03	38.78	39.45	39.66	39.74	39.63	39.4
8000	0	18.32	22.87	24.44	25.61	27.66	30.41	31.19	31.34	31.5	31.59	31.01
10000	0	0	0	0	0	0	9.18	7.5	6.6	6.87	5.33	0
OASPL	63.99	65.86	67.21	68.15	68.84	69.43	69.94	70.36	70.68	71	71.42	71.87
PNL	70.83	73.82	75.57	76.59	77.26	78	78.74	79.31	79.72	80.11	80.61	81.1

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	56.85	56.86	56.64	56.86	57.39	58.25	59.19	59.93	60.21	59.82	58.86	123.21
100	58.17	58.92	59.65	60.3	60.77	61.01	60.93	60.46	59.52	58.05	56.03	123.82
130	57.67	58.28	58.87	59.38	59.7	59.82	59.65	59.09	58.05	56.44	54.25	122.88
160	59.96	60.3	60.56	60.74	60.8	60.69	60.33	59.62	58.49	56.83	54.64	124.04
200	59.91	60.36	60.71	60.9	60.87	60.53	59.81	58.59	56.79	54.35	51.25	123.75
250	61.26	61.84	62.14	61.89	61.59	61.45	60.76	59.22	56.92	53.89	50.1	124.54
320	60.72	61.22	61.41	61.34	60.88	59.91	58.5	56.6	54.06	50.99	47.46	123.68
400	61.53	61.74	61.8	61.09	60.4	59.43	57.57	55.04	52.18	48.98	44.82	123.82
500	61.8	61.94	61.75	61.45	60.44	59.06	57.15	54.69	51.7	48.09	43.63	123.8
630	60.88	61	60.9	60.22	59.11	57.64	55.48	52.94	49.89	46.02	41.26	122.9
800	60.93	61.03	60.82	59.96	58.56	56.8	54.8	51.91	48.82	44.51	39.19	122.64
1000	60.76	60.86	60.62	59.54	57.85	55.65	53.25	50.5	47.05	42.61	36.74	122.27
1300	60.4	60.75	60.76	59.3	57.06	54.47	51.93	49.21	45.82	40.79	34.25	121.81
1600	60.02	60.7	60.59	58.55	55.91	53.29	50.49	47.26	43.44	38.47	31.42	121.25
2000	59.81	60.45	59.92	57.82	54.88	51.6	48.42	45.11	41.18	35.74	28.06	120.49
2500	58.07	58.72	58.19	55.6	52.27	49.12	45.6	41.81	37.29	31.17	22.51	118.69
3200	55.42	55.79	54.89	52.2	48.87	45.35	41.53	37.43	32.32	25.32	8.78	115.92
4000	51.12	50.82	49.81	47.61	44.37	40.32	35.46	31.08	25.46	11.26	0	111.92
5000	45.53	44.84	43.19	40.86	37.47	33.12	27.31	20.74	3.22	0	0	106.77
6300	38.39	36.89	34.86	31.89	27.73	21.4	-1.44	0	0	0	0	99.98
8000	29.17	28.47	22.86	17.63	0	0	0	0	0	0	0	91.03
10000	0	0	0	0	0	0	0	0	0	0	0	67.69
OASPL	72.31	72.67	72.85	72.07	71.33	70.58	69.67	68.52	67.1	65.33	63.16	135.07
PNL	81.61	82.01	81.64	79.95	77.87	75.69	73.65	71.48	68.85	65.04	60.71	79.97

NASA Lewis Allison AST Jet Noise Test 1996

rdg	122
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nalrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ACOU
nozbid	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	858.86
m01	0.06819
pamb	14.2545
tamb	501.148
rhumid	79.37
winds1	0
nprc	1.543
nprb	1.614
ptc	21.9947
ptb	23.0068
wactc	2.176
wactb	17.379
ttc	1302.41
ttb	497.483
ptmix	22.6941
ttmix	587.052
mixpnd	0.72302
grsvixp	18795.4
badchan	(26)
bkgnd	114
escdate	18.Nov.96
esctime	20:07:37
DADSdate	97.08.19
DADStime	20:07:37
btchdate	18.Nov.96
btchtime	20:07:37

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 16:50:36 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120
80	75.46	76.32	77.19	78.01	78.81	79.56	80.24	80.85	81.37	81.79	82.1	82.32	82.57	82.99
100	76.26	78.99	79.57	80.04	80.43	80.78	81.1	81.43	81.79	82.22	82.72	83.33	84.1	85.08
130	78.5	79.32	79.73	79.85	79.81	79.71	79.82	79.63	79.79	80.17	80.82	81.79	83.03	84.48
160	80.08	80.89	81.41	81.72	81.89	82	82.09	82.25	82.51	82.93	83.56	84.42	85.46	86.61
200	80.97	81.89	82.45	82.75	82.86	82.93	82.96	83.05	83.24	83.6	84.17	84.97	85.89	86.79
250	80.69	81.25	81.74	82.19	82.6	82.99	83.37	83.76	84.16	84.56	84.97	85.42	86.02	86.85
320	81.43	81.97	82.39	82.71	82.96	83.22	83.49	83.8	84.19	84.69	85.32	86.06	86.92	87.77
400	80.61	81.21	81.96	83.06	83.57	84.09	84.65	85.21	85.75	86.28	86.8	87.26	87.68	88.31
500	81.03	81.93	82.61	83.13	83.51	83.79	84.05	84.34	84.71	85.18	85.77	86.52	87.38	88.32
630	80.56	81.85	82.74	83.32	83.62	83.91	84.37	84.51	84.95	85.8	86.67	87.33	88.02	88.46
800	80.79	82.23	83.16	83.78	84.18	84.5	84.91	85.25	85.76	86.67	87.42	87.88	88.29	88.73
1000	81.13	82.87	83.81	84.37	84.2	84.18	84.59	85.33	86.05	86.65	87.63	88.32	88.64	89.45
1300	81	82.84	83.71	84.13	84.43	84.79	85.24	85.84	86.67	87.57	88.16	88.71	89.59	90.63
1600	80.84	82.87	83.85	84.28	84.52	84.86	85.34	85.86	86.48	87.26	88.15	89.1	90.31	92.1
2000	80.18	82.83	84.15	84.66	84.74	84.81	85.24	85.87	86.53	87.38	88.51	89.76	91.24	92.8
2500	79.5	82.81	83.81	84.14	84.29	84.47	84.79	85.36	86.26	87.49	88.64	89.93	91.65	93.34
3200	78.38	81.53	83	83.46	83.6	83.83	84.35	84.95	85.75	86.83	87.9	89.28	91.28	92.81
4000	77.18	80.27	81.72	82.34	82.54	82.81	83.53	83.96	84.67	85.73	86.97	88.04	89.64	90.86
5000	75.75	79.67	80.7	80.74	80.74	81.49	82.42	82.86	83.34	84.41	85.46	85.84	87.16	88.46
6300	74.07	78.23	79.46	79.67	79.68	80.33	81.4	82.04	82.77	83.83	83.93	84.11	85.06	86.06
8000	72.53	77.04	78.69	78.99	79.02	79.7	80.68	81.24	81.91	82.86	83.35	83.15	83.55	84.27
10000	69.96	74.15	75.99	76.96	77.55	78.02	78.28	78.83	79.37	79.95	80.85	79.56	79.84	80.67
OASPL	92.82	94.51	95.43	95.91	96.13	96.42	96.86	97.31	97.89	98.67	99.49	100.26	101.35	102.53

distance: (	150	150	150	150	150	150	150	150	150	
yaw angle	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	
frequency	125	130	135	140	145	150	155	160	165	PWL
80	83.68	84.74	86.28	88.31	90.62	92.69	94.92	96.57	97.98	129.47
100	86.26	87.7	89.42	91.38	93.39	95.21	96.64	97.62	98.26	131.25
130	86.1	87.81	89.53	91.2	92.68	93.87	94.88	95.1	95.32	129.95
160	87.84	89.07	90.26	91.38	92.31	93.04	93.53	93.83	94.16	130.22
200	87.6	88.35	89.08	89.77	90.31	90.56	90.41	90.08	90	129.13
250	87.98	89.25	90.42	91.26	91.18	90.57	90.01	89.61	89.38	129.6
320	88.58	89.28	89.83	90.18	90.27	90.04	89.48	88.75	88.23	129.51
400	89.01	89.06	89.37	89.52	89.03	88.13	87.21	86.48	86.06	129.56
500	89.16	89.55	89.73	89.47	88.94	88.28	87.33	86.33	85.73	129.4
630	89.05	89.28	89.17	88.84	88.22	87.35	86.33	85.29	84.51	129.37
800	89.2	88.88	88.46	87.94	87.32	86.45	85.57	84.79	84.3	129.48
1000	89.72	89.27	88.78	88.28	87.64	86.86	85.69	84.88	84.14	129.8
1300	91.11	89.77	88.88	88.27	87.48	86.49	85.37	84.34	83.74	130.34
1600	92.3	89.32	88.63	88.37	87.62	86.51	85.24	84.15	83.51	130.7
2000	93.06	89.46	88.49	88.1	87.23	86.14	84.93	83.83	83.34	131.05
2500	92.83	89.72	88.08	87.34	86.41	85.41	84.38	83.43	82.94	131.03
3200	92.12	89.52	87.49	86.24	85.19	84.17	83.12	82.2	81.75	130.4
4000	90.16	88.32	86.39	84.8	83.41	82.5	81.64	80.48	79.71	128.93
5000	87.96	86.01	84.34	82.85	81.56	80.5	79.08	77.43	76.47	127.02
6300	85.65	83.79	82.13	80.74	79.5	78.39	76.3	73.85	72.79	125.32
8000	83.73	81.81	80.4	79.36	78	76.85	74.21	70.88	69.51	124.11
10000	80.63	79.16	77.38	76.22	74.7	73.25	70.85	67.84	65.62	121.27
OASPL	102.73	101.74	101.66	101.93	102.22	102.58	102.99	103.39	103.86	142.85

NASA Lewis Allison AST Jet Noise Test 1996

rdg	122
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	658.66
m01	0.06819
pamb	14.2545
tamb	501.148
rhumid	79.37
winds1	0
nprc	1.543
nprb	1.614
ptc	21.9947
ptb	23.0068
wactc	2.176
wactb	17.379
ttc	1302.41
ttb	497.483
ptmix	22.8941
ttmix	587.052
mixpnd	0.72302
grsvixp	16795.4
badchan	(26)
bkgnd	114
escdate	18.Nov.96
esctime	20:07:37
DADSdate	97.08.19
DADStime	20:07:37
btchdate	18.Nov.96
btchtime	20:07:37

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Tue Aug 19 16:50:46 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	53.67	55.02	56.26	57.43	58.47	59.38	60.17	60.81	61.3	61.62	61.75	61.73
100	56.44	57.66	58.64	59.43	60.06	60.57	61	61.38	61.69	62.01	62.34	62.71
130	56.63	57.94	58.74	59.19	59.39	59.46	59.48	59.52	59.65	59.92	60.41	61.13
160	58.12	59.43	60.36	60.99	61.4	61.68	61.86	62.06	62.29	62.61	63.07	63.68
200	58.89	60.32	61.29	61.91	62.29	62.52	62.65	62.77	62.93	63.19	63.59	64.14
250	58.43	59.5	60.42	61.19	61.65	62.42	62.91	63.34	63.7	63.99	64.23	64.43
320	58.93	60	60.85	61.51	62.04	62.47	62.84	63.19	63.54	63.93	64.38	64.88
400	57.75	58.9	60.12	61.55	62.33	63.04	63.71	64.3	64.8	65.22	65.56	65.75
500	57.74	59.22	60.37	61.25	61.91	62.39	62.76	63.09	63.41	63.77	64.17	64.63
630	56.75	58.64	60.03	61	61.6	62.09	62.66	62.85	63.25	63.99	64.66	65.02
800	56.45	58.51	59.96	60.99	61.69	62.23	62.76	63.14	63.61	64.4	64.94	65.09
1000	56.21	58.62	60.11	61.1	61.25	61.44	61.98	62.77	63.45	63.92	64.87	65.03
1300	55.47	58.02	59.46	60.33	60.96	61.55	62.14	62.78	63.57	64.33	64.68	64.9
1600	54.63	57.41	58.96	59.87	60.47	61.05	61.89	62.25	62.83	63.46	64.11	64.7
2000	53.09	56.54	58.5	59.51	59.96	60.29	60.87	61.56	62.17	62.87	63.73	64.59
2500	51.22	55.19	57.08	57.95	58.51	58.97	59.46	60.09	60.93	62	63.07	63.73
3200	48.32	52.43	54.86	55.72	56.32	56.87	57.58	58.24	58.97	59.87	60.62	61.56
4000	44.34	48.53	50.86	52.24	52.99	53.6	54.54	55.06	55.89	56.55	57.41	57.99
5000	38.71	44	46.15	47.03	47.66	48.65	50.02	50.51	50.91	51.75	52.41	52.2
6300	30.45	36.39	38.92	40.14	40.94	42.12	43.49	44.29	44.95	45.51	45.19	44.82
8000	12.99	25.13	29.02	30.78	31.85	33.21	34.66	36.42	35.96	36.48	36.25	35.12
10000	0	0	0	0	9.05	14.85	17.7	19.37	19.88	20.14	19.74	15.33
OASPL	68.83	70.57	71.8	72.66	73.24	73.7	74.18	74.62	75.09	75.61	76.13	76.55
PNL	78.13	79.21	80.8	81.84	82.42	82.94	83.51	84.06	84.7	85.48	86.24	86.76

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.67	61.69	61.89	62.37	63.21	64.41	65.71	66.78	67.33	67.12	66.06	129.37
100	63.16	63.73	64.43	65.29	66.3	67.43	68.43	69.03	68.98	68.06	66.23	131.09
130	62.05	63.1	64.23	65.34	66.35	67.17	67.65	67.61	66.91	65.43	63.11	129.72
160	64.4	65.15	65.88	66.52	66.99	67.24	67.16	66.64	65.6	63.96	61.69	129.9
200	64.73	65.22	65.52	65.87	65.66	65.48	64.98	63.95	62.23	59.9	57.12	128.7
250	64.69	65.11	65.72	66.36	66.78	66.73	65.58	63.67	61.48	58.98	55.89	128.96
320	65.38	65.8	66.06	66.14	65.92	65.35	64.32	62.72	60.45	57.51	53.93	128.62
400	65.81	66	66.14	65.53	65.04	64.23	62.56	60.23	57.49	54.38	50.61	128.38
500	65.13	65.6	65.86	65.55	64.9	63.62	61.84	59.59	56.66	53.06	48.77	127.72
630	65.32	65.25	65.24	64.72	63.71	62.3	60.35	57.83	54.69	50.8	45.89	127.22
800	65.09	65.01	64.84	63.75	62.38	60.71	58.67	56.04	52.87	48.97	43.86	126.86
1000	64.93	65.2	64.8	63.53	62.02	60.29	58.16	55.47	52.01	47.59	41.78	126.62
1300	65.32	65.6	65.56	63.36	61.41	59.51	57.09	54.06	50.26	45.52	39.36	126.62
1600	65.44	66.61	66.07	62.18	60.37	58.72	56.23	52.9	48.72	43.57	36.78	126.33
2000	65.57	66.49	65.96	61.4	59.22	57.32	54.56	51.07	46.66	41.09	33.73	125.9
2500	64.91	65.9	64.54	60.35	57.37	55.02	52	48.32	43.71	37.66	29.32	124.8
3200	62.95	63.72	62.05	58.21	54.66	51.55	48.13	44.06	38.9	32.1	22.14	122.55
4000	58.92	59.02	57.38	54.13	50.43	46.63	42.42	37.85	32.03	23.42	0	118.65
5000	52.68	52.86	51	47.38	43.54	39.25	34.48	28.91	20.34	0	0	113.07
6300	44.66	44.26	42.07	38.02	33.58	28.7	22.19	3.05	0	0	0	105.68
8000	34.18	33.06	30.06	24.73	17.94	0	0	0	0	0	0	96.02
10000	11.11	-2.13	0	0	0	0	0	0	0	0	0	77.92
OASPL	77.05	77.56	77.51	76.74	76.46	76.24	75.85	75.29	74.47	73.16	71.2	140.39
PNL	87.57	88.26	87.46	84.8	82.93	81.39	79.52	77.39	74.99	72.25	68.63	85.57

NASA Lewis Allison AST Jet Noise Test 1996

rdg	123
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	901.02
m01	0.0684
pamb	14.2507
tamb	501.06
rhumid	79.63
winds1	0
nprc	1.735
nprb	1.82
ptc	24.725
ptb	25.9363
wactc	2.436
wactb	19.489
ttc	1398
ttb	500.358
ptmix	25.8017
ttmix	600.091
mixpnd	0.750208
gravixp	19754.9
badchan	(26)
bkgnd	114
escdate	18.Nov.96
esctime	20:14:17
DADSdate	97.08.19
DADStime	20:14:17
btchdate	18.Nov.96
btchtime	20:14:17

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 16:54:49 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	79.94	81.11	81.99	82.63	83.09	83.42	83.67	83.88	84.1	84.36	84.69	85.14
100	81.02	82.05	82.79	83.3	83.86	83.91	84.11	84.33	84.6	84.96	85.45	86.13
130	82.34	82.9	83.31	83.6	83.82	84	84.19	84.42	84.7	85.06	85.52	86.12
160	83.92	84.78	85.39	85.82	86.12	86.35	86.57	86.82	87.14	87.56	88.13	88.86
200	84.68	85.53	86.05	86.34	86.47	86.53	86.57	86.67	86.89	87.28	87.9	88.75
250	84.36	84.89	85.17	85.39	85.67	86.07	86.53	86.94	87.32	87.86	88.76	89.94
320	85.32	85.76	86.08	86.31	86.52	86.73	86.99	87.32	87.75	88.31	89.02	89.86
400	84.83	85.57	86.15	86.6	86.97	87.29	87.61	87.97	88.4	88.93	89.6	90.43
500	85.25	85.81	86.2	86.51	86.8	87.13	87.5	87.86	88.24	88.71	89.38	90.21
630	85.09	85.93	86.52	86.93	87.21	87.43	87.65	87.94	88.45	89.23	89.95	90.63
800	85.99	86.88	87.41	87.67	87.88	88.18	88.53	88.94	89.42	89.99	90.67	91.48
1000	86.04	87.3	87.97	88.19	88.14	88.25	88.85	88.9	89.36	90.06	90.92	91.91
1300	85.77	87.24	88.18	88.74	89.03	89.12	89.15	89.4	89.71	90.31	91.38	92.77
1600	86.4	88.12	89.06	89.51	89.67	89.82	89.97	90.35	91	91.64	92.33	93.69
2000	86.33	88.31	89.45	90.06	90.33	90.47	90.65	90.89	91.38	92.27	93.7	95.63
2500	85.86	88.36	89.83	90.38	90.53	90.72	91.11	91.56	92.24	93.37	95.15	97.38
3200	85.48	88.5	90.01	90.7	90.89	91.07	91.46	92.02	93.01	94.33	96	98.36
4000	85.05	88.66	90.16	90.66	90.63	90.96	91.68	92.16	93.04	94.48	96.52	99.04
5000	84.5	89.1	90.21	90.37	90.01	90.42	91.24	91.93	92.52	93.84	95.83	98.06
6300	83.86	88.8	90.01	90.18	89.87	90.12	90.9	91.64	92.23	93.34	94.71	96.75
8000	83.24	88.52	89.79	89.64	89.58	90.25	91.36	91.81	92.06	93.04	94.36	96.38
10000	81.4	86.9	87.03	87.96	88.47	89.16	89.56	89.75	89.91	90.79	91.87	93.08
OASPL	98.1	100.27	101.28	101.86	101.75	102.05	102.5	102.9	103.44	104.37	105.71	107.53

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	85.75	86.57	87.65	89.01	90.7	92.68	94.76	96.65	98.15	99.17	99.85	132.82
100	87.02	88.17	89.6	91.33	93.36	95.68	98.05	100.15	101.72	102.66	103.11	135.74
130	86.9	87.93	89.24	90.84	92.75	94.93	97.12	99.02	100.4	101.14	101.35	134.73
160	89.75	90.77	91.92	93.18	94.54	95.99	97.42	98.67	99.58	100.1	100.37	135.25
200	89.76	90.91	92.08	93.21	94.26	95.16	95.89	96.41	96.73	96.93	97.23	134.07
250	90.73	91.61	92.62	94.1	95.16	95.69	95.77	95.8	95.3	94.95	94.69	134.07
320	90.84	91.85	92.84	93.74	94.52	95.1	95.03	94.4	93.45	92.45	91.81	133.68
400	91.37	92.22	92.92	93.86	94.01	93.89	93.55	93.02	92.22	91.38	90.81	133.45
500	91.07	91.94	92.73	93.55	93.96	93.85	93.39	92.48	91.13	89.96	89.35	133.22
630	91.68	92.78	93.39	93.45	93.74	93.36	92.43	91.23	89.92	88.71	88.04	133.27
800	92.22	92.58	92.98	93.04	93.15	92.98	92.08	90.88	89.65	89.06	88.84	133.47
1000	92.71	93.25	93.44	92.97	92.96	92.62	91.79	90.71	89.54	88.46	87.82	133.63
1300	94.2	95.26	94.85	93.38	92.82	92.33	91.51	90.54	89.53	88.63	88.16	134.32
1600	95.87	96.86	95.49	93.45	92.63	92.19	91.63	90.93	90.31	89.87	88.74	135.2
2000	97.49	98.19	96.56	93.71	92.51	92.23	91.75	91.15	90.66	90.36	90.41	136.14
2500	98.56	100.06	97.69	94.38	92.76	92.13	91.42	90.72	90.24	89.91	89.8	137.3
3200	100.72	101	98.34	95.42	93.19	91.94	91	90.28	89.87	89.59	89.39	138.07
4000	101.04	100.56	97.88	95.22	93.14	92.09	90.83	89.63	88.81	88.12	87.75	138.11
5000	99.97	99.52	97.28	94.48	92.21	90.79	89.3	87.92	86.87	86.03	85.51	137.28
6300	98.99	98.75	96.41	93.56	91.17	89.79	88.31	86.73	85.21	84	83.54	136.46
8000	98.29	98.1	95.76	92.77	90.43	89.22	87.43	85.33	83.43	82.17	81.94	136
10000	95.65	95.85	93.87	90.7	88.13	86.81	84.48	82.04	80.44	79.33	78.76	133.66
OASPL	109.41	109.63	108.15	106.79	106.49	106.72	107.06	107.56	108.1	108.49	108.72	148.74

NASA Lewis Allison AST Jet Noise Test 1996

rdg	123
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
ambc	35.02
amixb	78.39
scale	4
vid	901.02
m01	0.0684
pamb	14.2507
tamb	501.06
rhumid	79.83
winds1	0
nprc	1.735
nprb	1.82
ptc	24.725
ptb	25.9363
wactc	2.436
wactb	19.489
ttc	1398
ttb	500.358
ptmix	25.8017
ttmix	600.091
mixpnd	0.750208
gravixp	19754.9
badchan	(26)
bkgnd	114
escdate	18.Nov.96
esctime	20:14:17
DADSdate	97.08.19
DADStime	20:14:17
btchdate	18.Nov.96
btchtime	20:14:17

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 18:55:00 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	58.15	59.82	61.09	62.05	62.75	63.25	63.6	63.84	64.02	64.18	64.34	64.55
100	59.2	60.72	61.86	62.69	63.28	63.7	64.01	64.26	64.49	64.75	65.08	65.51
130	60.47	61.52	62.33	62.94	63.4	63.75	64.04	64.3	64.55	64.81	65.1	65.45
160	61.96	63.32	64.33	65.08	65.63	66.04	66.36	66.64	66.92	67.24	67.64	68.13
200	62.6	63.96	64.89	65.51	65.89	66.12	66.26	66.4	66.59	66.87	67.31	67.92
250	62.12	63.14	63.85	64.4	64.93	65.5	66.07	66.51	66.86	67.29	68.01	68.94
320	62.81	63.79	64.54	65.11	65.58	65.97	66.34	66.71	67.1	67.55	68.08	68.68
400	61.97	63.26	64.26	65.09	65.72	66.24	66.67	67.06	67.45	67.88	68.36	68.92
500	61.96	63.1	63.95	64.63	65.2	65.73	66.2	66.6	66.94	67.3	67.76	68.33
630	61.28	62.72	63.81	64.6	65.18	65.61	65.95	66.28	66.76	67.41	67.93	68.32
800	61.63	63.16	64.2	64.86	65.38	65.9	66.38	66.84	67.28	67.72	68.19	68.89
1000	61.12	63.05	64.26	64.9	65.18	65.52	66.24	66.34	66.75	67.32	67.96	68.63
1300	60.25	62.42	63.93	64.93	65.56	65.86	66.05	66.34	66.61	67.07	67.91	68.96
1600	60.17	62.63	64.17	65.1	65.61	66.01	66.31	66.74	67.34	67.82	68.27	69.27
2000	59.25	62.03	63.8	64.91	65.55	65.95	66.29	66.57	67.01	67.74	68.91	70.45
2500	57.36	60.94	63.1	64.17	64.72	65.19	65.75	66.26	66.87	67.63	69.32	71.13
3200	55.37	59.36	61.65	62.95	63.56	64.06	64.94	65.26	66.19	67.33	68.67	70.57
4000	52.19	56.86	59.28	60.53	61.05	61.74	62.62	63.17	64	65.23	66.91	68.87
5000	47.41	53.37	55.8	56.58	56.83	57.71	58.77	58.53	60.07	61.16	62.72	64.37
6300	39.98	46.79	49.32	50.55	50.83	51.86	52.98	53.66	54.38	55.2	55.99	57.21
8000	29.34	37.13	40.21	41.6	42.34	43.71	45.26	45.81	45.96	46.62	47.26	48.25
10000	0	19.34	23.79	26.56	28.47	30.31	31.61	32.02	31.96	32.36	32.58	32.43
OASPL	73.19	74.89	76.1	76.91	77.44	77.88	78.3	78.66	79.08	79.63	80.37	81.36
PNL	81.82	84.77	86.55	87.54	88.09	88.6	89.15	89.61	90.26	91.1	92.17	93.6

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.85	65.27	65.86	66.64	67.63	68.79	69.86	70.54	70.56	69.72	67.94	132.73
100	66.09	66.84	67.76	68.91	70.24	71.73	73.09	73.96	74.06	73.12	71.06	135.58
130	65.92	66.55	67.37	68.38	69.58	70.91	72.08	72.76	72.63	71.47	69.14	134.49
160	68.69	69.31	69.97	70.62	71.27	71.87	72.27	72.28	71.67	70.24	67.91	134.92
200	68.62	69.34	70	70.53	70.84	70.88	70.56	69.81	68.56	66.75	64.36	133.6
250	69.4	69.87	70.56	71.22	71.53	71.16	70.17	68.69	66.76	64.31	61.19	133.4
320	69.31	69.89	70.35	70.6	70.6	70.25	69.07	67.07	64.42	61.19	57.49	132.77
400	69.5	69.9	70.05	70.13	69.69	68.6	67.08	65.1	62.49	59.27	55.37	132.19
500	68.82	69.22	69.44	69.56	69.12	67.99	66.27	63.8	60.51	56.74	52.42	131.52
630	68.96	69.57	69.59	68.92	68.31	66.63	64.58	61.72	58.29	54.24	49.45	131.11
800	69.01	68.86	68.64	67.91	67.06	65.76	63.44	60.44	57.11	53.23	48.19	130.8
1000	69	68.99	68.52	67.22	66.24	64.66	62.31	59.31	55.63	51.12	45.38	130.44
1300	69.92	70.4	69.29	66.97	65.36	63.57	61.13	58.11	54.41	49.76	43.73	130.57
1600	70.98	71.36	69.25	66.3	64.35	62.51	60.21	57.29	53.74	49.24	42.95	130.65
2000	71.79	71.87	69.45	65.61	63.2	61.43	59.06	56.06	52.39	47.59	40.75	131.02
2500	72.79	72.58	69.36	64.86	62.05	59.77	56.96	53.6	49.52	44.13	36.17	131.14
3200	72.32	71.85	68.23	64.06	60.32	57.21	53.92	50.15	45.59	39.36	29.89	130.31
4000	70.23	68.91	65.03	60.97	57.15	53.85	49.77	44.9	39.07	31.21	17.8	127.97
5000	65.37	63.81	60.18	55.67	51.3	47.17	42.17	36.21	28.94	18.94	0	123.42
6300	58.43	56.63	52.68	47.67	42.51	37.63	31.66	23.58	0	0	0	116.74
8000	48.78	46.71	42.08	36.17	30.06	23.48	7.43	0	0	0	0	107.66
10000	33.05	30.56	24.66	14.17	0	0	0	0	0	0	0	92.7
OASPL	82.34	82.46	81.62	80.99	80.86	80.73	80.53	80.22	79.53	78.16	75.89	144.96
PNL	94.93	94.67	92.37	89.65	87.79	86.24	84.55	82.8	80.78	78.06	74.38	91.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	127
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	554.45
m01	0.20366
pamb	14 2077
tamb	500.36
rhumid	80.9
winds1	0
nprc	1.168
nprb	1.213
ptc	16.5946
ptb	17.2339
wactc	1.156
wactb	10.064
ttc	1119.85
ttb	506.033
ptmix	17.1681
ttmix	569.274
mixpnd	0.473977
grsvixp	6220.93
badchan	(26)
bkgnd	115
escdate	18.Nov.96
esctime	20:52:55
DADSdate	97.08.19
DADStime	20:52:55
btchdate	18.Nov.96
btchtime	20:52:55

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 17:08:42 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	56.48	56.27	56.57	57.87	58.31	58.63	59.83	59.42	60.07	60.98	61.22	61.84	62.44	63.21	64.57	65.18	65.12	64.97	65.21	0	103.52
100	60.18	57.91	57.27	58.07	59.09	60.07	59.97	59.98	60.36	61.56	61.23	61.47	61.72	61.02	61.97	62.54	62.56	63.34	64.19	64.62	64.68	64.92	65.47	104.34
130	54.24	59.38	59.87	60.68	61.1	61.51	61.46	61.63	61.78	61.99	62.89	63.05	63.47	64.67	64.86	64.58	65.35	66.41	67.45	67.83	67.64	67.55	67.65	106.59
160	62.29	58.32	57.8	59.37	60.71	61.42	62.15	62.37	61.89	61.88	62.33	62.98	64.01	64.23	64.59	64.7	64.69	65.16	65.59	65.93	66.14	66.19	63.06	106.02
200	58.64	61.88	63.76	65.02	65.87	66.3	66.69	66.65	66.55	66.85	67.43	67.97	68.54	68.95	69.26	69.47	69.58	69.57	69.37	68.95	68.3	67.45	66.59	110.37
250	64.61	66.56	67.79	68.7	69.48	70.05	70.21	70.22	70.42	70.85	71.48	72.14	72.68	73.09	73.39	73.58	73.62	73.47	73.09	72.51	71.81	71.16	70.83	114.31
320	64.7	67.15	68.62	69.45	69.87	70.04	70.1	70.16	70.34	70.65	71.15	71.8	72.52	73.2	73.79	74.22	74.41	74.23	73.55	72.32	70.73	69.11	68	114.45
400	61.55	64.71	66.55	67.81	68.7	69.37	69.9	70.38	70.88	71.41	71.96	72.49	72.92	73.22	73.34	73.25	72.9	72.28	71.38	70.25	68.98	66.54	63.55	113.88
500	62.62	65.58	67.5	68.68	69.36	69.76	70.12	70.59	71.18	71.81	72.53	73.32	74.06	74.67	75.05	75.13	74.82	74.06	72.9	71.38	69.7	68.08	66.61	114.98
630	61.63	65.91	68.1	68.94	69.3	69.59	69.87	70.41	71.06	71.66	72.39	73.21	74.07	74.51	74.63	74.32	73.5	72.3	70.67	69.03	67.68	66.75	66.48	114.49
800	62.44	66.93	68.68	68.56	68.34	68.86	69.49	70.02	70.49	71.03	71.7	72.5	73.31	73.92	74.08	73.68	72.75	71.31	69.52	67.8	66.4	65.42	65.06	113.87
1000	62	65.78	67.09	67.29	67.38	67.77	68.31	68.98	69.52	70.17	70.97	71.64	71.9	72.2	72.39	72.27	71.6	70.2	68.23	66.36	64.88	63.64	62.94	112.65
1300	60.89	64.49	65.93	66.33	66.51	66.85	67.33	67.98	68.62	69.13	69.56	70.05	70.38	70.69	70.94	70.7	69.8	68.33	66.58	64.88	63.49	62.59	62.46	111.3
1600	59.82	64.04	64.94	64.78	64.83	65.37	65.95	66.53	67.06	67.6	68.07	68.48	68.99	69.56	69.9	69.91	69.34	67.84	65.77	63.78	62.22	61.35	61.3	110.09
2000	58.32	63.31	63.86	63.7	64.06	64.69	65.25	65.86	66.18	66.4	66.86	67.57	67.96	68.25	68.28	68.09	67.39	65.9	64.02	62.24	60.77	59.83	59.7	108.85
2500	58.23	62.16	62.74	62.72	62.93	63.55	64.13	64.74	65.1	65.26	65.58	66.12	66.56	66.73	66.72	66.57	65.81	64.05	62.3	60.74	59.33	58.39	58.36	107.52
3200	58.07	62.18	62.64	63.19	63.56	63.72	64.24	64.66	65.02	65.29	65.52	65.79	65.89	66.06	65.92	65.43	64.42	62.74	61.15	59.53	57.97	57.06	57.27	107.15
4000	57.19	62.01	62.41	63.07	63.14	63.71	64.59	64.66	64.87	65.32	65.56	65.42	65.16	65.11	65.2	64.9	63.79	62.03	60.13	58.24	56.6	55.67	55.97	106.82
5000	56.93	62.54	63.16	63.59	63.36	64.55	65.37	65.54	65.76	66.08	66.44	66.4	65.91	65.76	65.74	65.12	63.77	62.09	60.19	58.19	56.44	55.44	55.82	107.47
6300	58.09	63.58	64.27	64.87	64.97	66.18	67.15	67.49	67.98	68.23	67.86	67.88	67.61	67.4	67.13	66.31	64.81	62.94	61.03	59.08	57.34	56.31	56.19	109.06
8000	56.61	64.63	65.34	66.27	66.34	67.54	68.4	68.63	68.9	69.06	68.96	69.04	68.65	68.55	68.28	67.39	65.95	64.22	62.31	60.25	58.39	57.17	56.87	110.18
10000	58.65	64.61	64.3	65.59	66.66	67.42	67.4	67.41	67.85	67.94	67.86	67.41	67.35	67.79	67.89	67.27	65.76	63.51	61.39	59.3	57.29	55.99	55.67	109.38
OASPL	73.92	77.39	78.61	79.3	79.71	80.25	80.69	81.04	81.44	81.88	82.37	82.9	83.38	83.78	84	83.91	83.45	82.68	81.69	80.6	79.52	78.57	77.64	124.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg	127
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	554.45
m01	0.20366
pamb	14.2077
tamb	500.36
rhumid	60.9
winds1	0
nprc	1.168
nprb	1.213
ptc	16.5946
ptb	17.2339
wacic	1.156
wacib	10.064
ttc	1119.85
ttb	506.033
ptmix	17.1681
ttmix	569.274
mixpnd	0.473977
grsvisp	6220.93
badchan	(26)
bkgnd	115
escdate	18.Nov.96
esctime	20:52:55
DADSdate	97.08.19
DADStime	20:52:55
btchdate	18.Nov.96
btchtime	20:52:55

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 17:06:54 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	32.76	37.06	35.77	35.35	36.38	38.55	40.32	38.27	38.73	41.2	41.14	41.11
100	35.61	34.27	37.81	38.83	39.61	39.25	41.51	39.91	38.45	39.64	38.72	40.9
130	44.37	36.58	37.21	39.79	40.5	40.71	42.1	41.51	41.51	42.94	42.93	42.38
160	31.03	38.85	40.3	41.08	44.16	44.22	46.47	42.19	41.14	41.52	42.12	42.16
200	40.85	42.61	45.03	45.87	48.14	48.87	49.86	46.38	46.04	47.16	47.24	48
250	43.04	46.12	48.45	49.8	50.13	50.31	50.04	48.78	50.83	50.93	52.1	52.28
320	39.78	42.44	43.89	45.33	47.07	48.12	48.62	49.58	49.22	49.24	48.68	49.08
400	38.66	42.92	45.55	46.97	47.69	48.17	48.68	49.47	48.98	50.45	51.04	51.39
500	38.56	42.14	44.72	46.35	47.45	47.94	48.24	49.31	50.04	50.82	51.49	51.93
630	37.55	43.17	45.58	46.08	48.1	48.74	47.56	48.77	49.21	49.76	50.21	50.73
800	37.44	41.87	43.87	44.31	44.53	45.17	45.76	47.94	48.25	48.31	48.77	49.15
1000	35.83	40.37	42.09	42.8	43.17	43.59	44.21	46.43	46.93	47.43	47.94	48.34
1300	34.23	38.53	40.34	40.8	41.02	41.72	42.4	44.95	45.39	45.64	45.62	45.35
1600	32.08	37.5	38.46	38.73	39.47	40.29	40.95	42.94	43.35	43.73	43.86	43.86
2000	29.9	35.04	36.31	36.88	37.52	38.3	38.86	41.56	41.77	41.72	41.86	42.16
2500	27.83	32.8	34.17	35.15	36	36.57	37.3	39.48	39.78	39.67	39.6	38.81
3200	24.73	30.25	31.52	32.83	33.51	34.37	35.5	37.9	38.19	38.33	38.33	37.88
4000	17.88	26.24	27.89	29.18	29.78	31.47	32.88	35.72	35.8	36.11	36.12	36.51
5000	0	17.38	21.86	24.04	25.35	27.33	28.78	33.02	33.3	33.55	33.52	32.87
6300	0	0	0	2.13	8.88	16.48	19.95	29.45	30.07	30.19	29.44	28.93
8000	0	0	0	0	0	0	0	20.86	21.38	21.05	19.8	17.75
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	50.46	52.93	55.06	56.15	57.07	57.57	58.25	58.57	58.92	59.37	59.8	60.14
PNL	55.44	58.9	61.62	62.78	63.51	64.1	64.86	65.37	65.74	66.22	66.58	66.78

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	40.59	39.7	38.65	40.24	39.29	38.91	38.05	36.89	35.41	33.82	31.58	103.45
100	40.23	41.2	40.64	39.45	41.79	41.67	41.63	40.88	38.73	36.75	34.44	104.98
130	42.12	43.45	42.79	42.17	41.87	41.39	41.86	40.95	39.56	37.48	33.47	106.38
160	44.84	44.37	43.82	44.81	43.51	42.2	40.68	39.17	39.09	36.36	31.65	107.2
200	47.86	47.68	48.34	47.58	48.43	47.35	45.92	44.14	43.23	40.66	37.78	111.58
250	52.91	52.84	52.92	52.29	51.75	50.4	48.46	46.52	43.11	39.31	34.87	114.96
320	49.34	49.28	49.52	49.02	48.62	47.2	45.77	42.86	39.86	35.81	30.17	112.03
400	51.63	51.61	51.4	50.98	49.69	48.41	48.02	43.54	40.04	36.16	31.41	113.37
500	52.05	51.94	51.56	50.73	49.34	47.13	44.21	40.91	37.41	33.65	29.45	113.23
630	51.41	51.51	51.03	49.82	47.87	45.32	42.23	38.66	35.27	31.49	27.13	112.34
800	49.13	49.15	48.57	47.68	45.97	43.54	40.33	36.71	32.73	28.11	22.81	110.54
1000	48.15	47.5	46.65	45.37	43.7	40.99	37.69	34.08	30.15	25.86	20.53	109.05
1300	45.17	45.14	45.05	44.03	42.04	39.29	35.75	31.77	27.45	22.71	16.83	107.01
1600	43.81	43.77	43.07	41.98	40.26	37.2	33.24	29.09	24.77	19.89	-1	105.25
2000	41.86	41.11	40.26	39.1	37.08	33.97	30.39	26.32	21.52	6.67	0	103.07
2500	39.69	39.08	38.1	36.72	34.41	30.95	27.12	22.82	13.82	0	0	100.93
3200	37.27	38.58	35.58	33.85	31.28	27.67	23.45	15.13	0	0	0	98.86
4000	34.57	33.58	32.64	30.92	27.87	23.97	15.08	0	0	0	0	96.14
5000	31.68	30.58	29.08	26.65	22.64	9.16	0	0	0	0	0	92.97
6300	27.76	26.25	23.85	18.93	0	0	0	0	0	0	0	88.54
8000	12.58	0	0	0	0	0	0	0	0	0	0	78.22
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.39	60.31	60.08	59.36	58.4	56.79	54.81	52.55	50.09	47	43.27	122.28
PNL	66.76	66.5	65.99	65.07	63.48	61.32	58.41	55.01	50.97	45.83	39.55	86.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg	126
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vld	797.26
m01	0.2028
pamb	14.2127
tamb	500.002
rhumid	82.98
winds1	0
nprc	1.385
nprb	1.439
ptc	19.6846
ptb	20.4521
wactc	1.976
wactb	14.44
ttc	1181.07
ttb	506.028
ptmix	20.3597
ttmix	587.283
mixpnd	0.671015
grsvixp	13067.6
badchan	(26)
bkgnd	115
escdate	18.Nov.96
esctime	20:42:43
DADSdate	97.08.19
DADStime	20:42:43
btchdate	18.Nov.96
btchtime	20:42:43

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:13:40 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	64.91	65.8	66.59	67.14	67.32	67.23	67.54	68.9	69.84	69.12	68.72	69.76
100	68.51	68.71	69.13	69.6	69.99	70.21	70.29	70.32	70.34	70.4	70.55	70.8
130	76.89	66.62	67.71	69.08	69.33	69.19	68.94	68.79	68.96	69.54	70.19	70.78
160	70.79	70.35	69.93	70.02	70.39	71.03	71.53	71.44	71.64	72.19	71.76	72.02
200	71.61	71.57	72.11	72.8	73.05	72.7	73.13	73.39	72.84	73.69	73.47	73.79
250	71.89	72.98	73.62	74.35	74.42	74.66	75.13	75.62	76.11	76.58	76.77	76.8
320	72.79	74.44	75.41	75.66	75.86	75.64	75.82	76.04	76.35	76.42	76.4	76.77
400	72.22	74.32	75.42	75.83	75.96	76.06	76.25	76.54	76.82	77.22	77.99	78.59
500	72.22	74.62	75.63	76.6	76.64	76.62	76.84	77.32	77.95	78.4	79.06	79.56
630	72.03	74.61	75.87	76.49	76.51	76.66	76.67	77.2	78.09	78.52	78.76	79.1
800	73.5	76.45	77.18	77	76.99	77.36	77.61	78.26	78.93	79.36	79.84	80.25
1000	74.22	76.84	77.29	76.97	77.09	77.4	77.81	78.44	79.18	79.92	80.55	80.81
1300	74.01	77.58	77.85	77.48	77.65	77.99	78.19	78.55	79.19	79.87	80.37	80.77
1600	73.61	77.49	77.66	77.23	77.36	78	78.14	78.8	79.73	80.06	80.46	81.14
2000	73.44	76.79	77.3	77.31	77.36	77.59	77.91	78.22	78.89	79.93	80.59	81.26
2500	72.8	75.72	76.17	76.53	76.41	76.57	76.98	77.44	78.18	78.95	79.62	80.46
3200	72.24	74.85	75.37	75.84	75.76	75.74	75.94	76.51	77.37	77.88	78.3	79.18
4000	71.33	74.06	74.8	75.59	75.17	75.11	75.37	75.6	75.86	76.29	76.96	77.84
5000	70.25	73.84	74.36	74.73	74.14	74.4	74.75	74.84	74.91	75.26	75.73	76.16
6300	71.13	73.3	74.3	74.45	73.71	73.84	74.53	74.68	74.66	74.97	74.84	75.26
8000	69.56	73.43	74.51	74.76	74.06	74.25	74.98	74.87	74.72	75.22	75.31	75.5
10000	68.43	72.13	72.95	73.75	73.66	73.66	73.43	73.24	72.72	72.62	72.91	72.78
OASPL	85.77	87.82	88.46	88.68	88.65	88.64	89.1	89.49	90.02	90.53	90.97	91.47

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.35	72.45	72.37	72.16	72.56	73.39	74.46	75.6	76.78	78.13	80.06	114.3
100	71.27	72.04	73.17	74.18	74.83	75.49	76.41	77.48	76.57	79.7	81.13	115.91
130	71.36	72.01	72.78	73.72	74.87	76.27	77.84	78.85	79.18	79.53	80.79	116.17
160	73.08	74.11	74.3	74.65	75.64	76.8	77.78	78.44	78.75	78.76	78.61	118.72
200	74.53	75.3	75.82	76.15	76.45	76.78	77.15	77.72	78.26	78.21	77.74	117.58
250	77.55	78.31	78.79	78.76	78.8	79.31	78.97	78.45	78.23	78.05	77.7	118.74
320	77.86	78.52	79.34	79.59	79.33	79.41	79.48	78.63	77.15	76.45	76.09	120.14
400	78.86	79.28	79.71	79.7	79.54	79.25	78.09	77.15	76.7	75.87	74.87	120.46
500	79.73	80.15	81.14	81.17	80.37	79.77	78.92	78.17	77.57	76.66	75.36	121.36
630	79.34	79.82	80.49	80.22	79.27	78.74	77.97	76.78	75.58	74.93	74.64	120.92
800	80.02	79.9	80.86	80.61	79.69	79.04	77.94	76.72	75.64	74.77	73.93	121.57
1000	80.8	81.14	81.85	81.29	79.79	78.86	77.96	76.87	75.21	74.06	73.32	122.03
1300	81.11	81.63	82.71	82.16	80.33	79.36	78.49	77.24	75.71	74.37	73.59	122.42
1600	81.95	82.67	83.41	82.64	80.61	79.07	78.08	76.94	75.36	73.95	73.09	122.72
2000	82.06	82.71	83.84	82.73	80.24	78.46	77.5	76.33	74.58	73.07	72.41	122.59
2500	81.46	82.18	82.36	81.53	79.74	77.85	76.66	75.24	73.4	72.34	72.17	121.72
3200	79.73	80.38	80.75	79.75	77.87	76.37	75.28	74.03	72.45	71.24	70.77	120.36
4000	77.77	77.77	77.82	76.98	75.37	74.09	73.23	71.83	69.96	68.94	68.94	118.72
5000	75.7	75.63	75.54	74.38	72.64	71.41	70.8	69.39	67.82	66.87	66.79	117.3
6300	74.7	74.46	74.14	72.62	70.8	69.44	68.78	67.79	66.34	65.14	64.65	116.59
8000	74.47	73.96	73.62	71.88	69.73	68.71	68.12	67.05	65.39	63.93	63.3	116.65
10000	71.73	71.96	72	70.18	67.57	65.97	65.56	64.71	62.74	60.91	60.19	114.91
OASPL	91.86	92.35	92.96	92.49	91.33	90.72	90.27	89.74	89.23	88.99	89.2	133.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	126
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	797.26
m01	0.2028
pamb	14.2127
tamb	500.002
rhumid	82.98
winds1	0
nprc	1.385
nprb	1.439
ptc	19.6846
ptb	20.4521
wactc	1.976
wactb	14.44
ttc	1181.07
ttb	506.028
ptmix	20.3597
ttmix	587.283
mixpnd	0.871015
grsvixp	13087.8
badchan	(26)
bkgnd	115
escdate	18.Nov.96
esctime	20:42:43
DADSdate	97.08.19
DADStime	20:42:43
btchdate	18.Nov.96
btchtime	20:42:43

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:13:49 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	43.78	47.78	47.83	47.81	47.86	47.91	50.61	48.85	47.94	50.45	50	49.89	49.84	49.68	49.39	51.51	50.99	50.83	50.29	49.97	49.43	48.6	47.55	114.76
100	45.83	45.54	47.45	47.8	48.47	47.97	49.15	50.25	49.37	48.47	47.88	50.17	50.19	50.13	50.22	50.19	52.29	52.5	52.68	52.28	51.16	49.83	48.66	115.59
130	54.58	48.17	47.68	49.51	48.89	49.73	51.44	48.68	48.85	50.46	50.18	49.84	50.35	52.8	52.26	51.65	51.63	52.04	53.28	52.89	51.82	49.87	47.22	116.39
160	50.59	50.55	50.86	51.27	52.4	51.84	53.04	51.26	50.99	52.33	51.7	51.56	52.78	52.46	52.31	53.7	53.44	53.01	52.12	51.13	50.63	48.34	45.17	116.89
200	49.42	49.63	51.56	52.23	53.48	53.44	54.85	53.12	52.01	53.3	52.38	52.91	53.83	54	54.69	53.84	54.07	53.81	52.6	51.11	49.5	48.44	45.41	117.68
250	50.19	52.28	54.25	55.34	55.82	55.82	55.86	55.18	56.57	56.78	57.41	57.34	57.84	57.9	58.29	57.66	57.13	55.82	54.52	52.81	49.86	46.73	43.15	120.5
320	49.7	51.44	52.78	53.54	54.28	54.77	54.88	55.43	55.42	55.5	54.85	55.05	55.65	55.66	55.83	55.02	54.81	53.69	52.25	49.75	47.29	44.56	40.72	118.58
400	48.97	51.92	53.58	54.77	55.08	55.28	55.61	55.63	56.12	56.44	57.05	57.18	57.22	57.36	57.98	57.42	55.55	54.63	52.22	50.22	47.85	44.61	39.86	119.78
500	48.38	51.21	52.89	53.97	54.48	54.71	54.78	56.05	56.86	57.24	57.72	57.85	57.58	57.54	57.57	56.56	54.85	52.9	50.78	48.04	44.95	41.81	37.75	119.5
630	48.4	51.57	53.2	53.78	54.2	54.87	55.48	55.54	56.35	56.89	56.85	57.15	56.81	56.64	56.71	55.85	53.98	52.49	50.14	47.04	43.98	40.29	35.4	118.99
800	48.94	52.7	53.71	53.78	54.06	54.7	55.23	56.2	56.78	56.78	57.04	57.18	56.73	56.5	56.74	55.86	53.67	51.78	49.37	46.45	42.87	38.48	33.03	118.99
1000	48.45	52.68	53.49	53.3	53.81	54.45	54.98	55.98	56.64	57.26	57.52	57.49	57.31	57.18	57.2	55.66	53.1	50.96	48.67	45.58	41.5	36.8	31.05	119.04
1300	47.54	52.07	52.89	52.99	53.45	54.16	54.45	55.51	56.13	56.77	57.23	57.22	57.3	57.49	57.72	56.17	53.17	50.54	47.97	44.68	40.4	35.31	28.76	118.89
1600	46.73	50.68	51.7	52.14	52.62	53.23	53.64	55.19	56.03	56.26	56.47	56.83	56.9	57.08	57.4	55.67	52.2	49.05	46.38	42.99	38.38	32.82	25.65	118.28
2000	44.65	48.64	49.87	50.58	50.86	51.26	51.73	53.92	54.52	55.32	55.57	56	56.51	56.57	56.16	54.3	50.98	47.52	44.45	40.64	35.63	29.92	22.72	117.13
2500	42.61	46.09	47.14	48.13	48.48	48.91	49.31	52.17	52.82	53.31	53.64	54.03	54.27	54.08	53.62	51.53	48.18	44.74	41.41	37.28	32.02	25.9	14.88	114.84
3200	38.72	42.44	44.13	45.58	45.72	45.84	46.37	48.82	50.51	50.77	50.86	51.08	50.68	50.31	49.47	47.25	43.91	40.63	37.28	32.84	26.86	16.09	0	111.62
4000	33.54	38.08	39.75	41.15	41.1	41.78	42.31	46.65	46.78	46.94	47.28	47.31	46.44	45.35	44.11	41.54	37.92	34.45	30.85	25.88	15.93	0	0	107.37
5000	25.87	31.13	33.29	34.48	34.71	35.38	36.5	42.45	42.44	42.45	42.31	42.09	40.76	39.58	37.98	34.84	30.72	26.57	21.11	5.07	0	0	0	102.04
6300	10.45	19.34	23.71	25.48	28.06	27.38	28.78	36.9	36.84	36.98	36.37	36.03	34.35	32.59	30.56	26.65	20.05	0.78	0	0	0	0	0	95.69
8000	0	0	0	0	0	0	0	28.89	28.69	28.62	28.08	27.08	24.12	21.1	15.79	0	0	0	0	0	0	0	0	86.48
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	61.06	62.77	64	64.64	65.14	65.48	66.01	66.5	67.01	67.5	67.87	67.85	67.94	67.98	68.1	67.18	65.66	64.38	63.02	61.38	59.54	57.42	54.87	130.3
PNL	68.78	72.05	73.34	74.07	74.46	74.86	75.4	75.9	76.41	76.89	77.07	77.33	77.45	77.38	77.11	75.55	72.96	70.38	67.68	65.17	62.03	58.11	52.72	76.99

NASA Lewis Allison AST Jet Noise Test 1996

rdg	125
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
modbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	863.71
m01	0.2026
pamb	14.2182
tamb	500.386
rhumid	81.64
winds1	0
nprc	1.536
nprb	1.614
ptc	21.8361
ptb	22.9449
wactc	2.155
wactb	17.245
ttc	1320.49
ttb	504.389
ptmix	22.8218
ttmix	595.043
mixpnd	0.722187
gravixp	16758
badchan	(26)
bkgnd	115
escdate	18.Nov.96
esctime	20:29:59
DADSdate	97.08.19
DADStime	20:29:59
bichdate	18.Nov.96
bichtime	20:29:59

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 17:00:28 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	71.03	71.85	72.45	72.9	73.25	73.54	73.79	74.04	74.3	74.58	74.9	75.28
100	73.25	74.08	74.59	74.91	75.11	75.22	75.31	75.39	75.5	75.65	75.88	76.18
130	73.77	74.35	74.64	74.75	74.75	74.71	74.69	74.71	74.8	74.99	75.3	75.73
160	74.89	75.38	75.78	76.05	76.29	76.5	76.71	76.82	77.14	77.39	77.67	78.01
200	74.89	75.73	76.32	76.73	77.04	77.28	77.48	77.67	77.87	78.09	78.37	78.73
250	76.02	77.2	77.82	78.03	78.06	78.07	78.12	78.23	78.45	78.86	79.52	80.32
320	77.13	78.04	78.6	78.92	79.19	79.47	79.63	79.2	79.55	80.48	80.49	81.31
400	76.72	77.81	78.51	78.72	79	79.54	79.92	80.32	80.67	81.15	81.85	82.13
500	77.3	78.62	79.36	79.77	80.05	80.31	80.56	80.76	81.1	81.49	81.79	82.46
630	77.61	79.11	79.63	79.95	80.4	81.09	81.23	81.11	81.32	81.71	82.54	83.29
800	78.39	80.28	80.81	80.9	81.02	81.38	81.73	82.13	82.49	82.84	83.46	84.09
1000	79.13	81.34	81.65	81.5	81.51	81.83	82.1	82.47	82.9	83.37	83.93	84.42
1300	79.56	81.64	82.31	82.42	82.49	82.74	83.13	83.48	83.78	84.1	84.49	85.14
1600	79.95	82.09	82.58	82.56	82.7	83.21	83.55	83.63	84.21	84.79	85.6	86.53
2000	79.79	81.83	82.31	82.43	82.84	83.12	83.63	84.19	84.77	85.41	86.24	87.28
2500	78.96	81.24	81.96	82.07	82.4	82.83	83.41	84.01	84.67	85.43	86.38	87.57
3200	77.76	79.96	80.9	81.33	81.7	82.17	82.65	83.21	83.89	84.74	85.86	87.18
4000	76.84	78.75	79.66	80.06	80.34	80.91	81.58	81.95	82.72	83.4	84.55	85.92
5000	75.32	77.7	78.55	78.75	78.78	79.34	80.2	80.79	81.26	81.6	82.56	83.56
6300	74.13	76.55	77.36	77.45	77.82	78.43	79.51	80.14	80.37	80.39	80.77	81.49
8000	73.27	75.72	76.57	76.75	76.84	77.73	79.03	78.88	80.08	79.97	80.29	80.61
10000	71.76	73.63	74.15	74.75	75.4	76.08	76.51	77.68	77.85	77.39	77.78	77.21
OASPL	90.36	92.16	92.76	92.96	93.17	93.6	94.03	94.42	94.84	95.33	96.05	96.81

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.74	76.33	77.05	77.92	78.95	80.15	81.52	82.99	84.54	86.29	88.66	120.82
100	76.61	77.18	77.91	78.81	79.9	81.18	82.63	84.13	85.59	87.08	88.9	121.86
130	76.31	77.04	77.93	78.98	80.17	81.51	82.96	84.4	85.69	86.86	88.2	121.77
160	76.43	76.98	79.67	80.51	81.51	82.85	83.83	84.9	85.76	86.46	87.14	122.77
200	79.2	79.77	80.43	81.17	81.98	82.87	83.75	84.42	84.71	84.58	84.03	122.82
250	80.92	81.53	82.27	83.02	83.68	84.25	84.74	85.1	85.26	85.2	84.93	124
320	82.2	83.01	83.72	84	83.99	83.96	83.77	83.49	83.12	82.6	81.9	124.36
400	82.37	82.74	83.03	83.23	83.36	83.41	83.34	83.12	82.58	81.52	80.52	124.32
500	83.06	83.57	83.99	84.22	84.16	83.87	83.31	82.57	81.7	80.7	79.63	124.82
630	83.82	84.36	84.84	84.57	83.91	83.36	82.76	82.04	81.14	80.05	78.78	125.15
800	84.58	84.85	85	84.66	84.2	83.85	83.38	82.61	81.53	80.32	79.13	125.8
1000	85.04	85.65	86.22	85.64	84.33	83.49	83.01	82.29	81.07	79.75	78.75	126.27
1300	86.25	87.28	87.99	86.86	84.99	83.96	83.29	82.47	81.37	80.33	79.65	127.25
1600	87.49	88.77	89.54	87.83	85.07	83.59	82.79	81.87	80.66	79.5	78.75	126.03
2000	88.41	89.6	90.41	88.54	85.3	83.6	82.5	81.48	80.47	79.61	79.17	128.54
2500	88.72	89.67	89.71	88.03	85.47	83.27	81.72	80.52	79.52	78.88	78.72	128.38
3200	88.4	89.22	88.9	87.22	84.87	82.72	81.22	80.07	79.06	78.36	78.11	127.76
4000	86.67	87.03	86.51	85.18	83.19	81.26	79.74	78.48	77.32	76.62	76.56	126.14
5000	84.27	84.21	83.73	82.46	80.63	78.84	77.31	75.96	74.89	74.33	74.37	123.99
6300	81.97	81.79	80.97	79.59	77.86	76.12	74.76	73.57	72.57	72.01	71.83	122.2
8000	80.28	79.83	78.66	77.33	75.83	74.33	72.94	71.8	70.45	69.87	69.89	121.14
10000	78.65	76.13	75.47	74.59	73.2	71.36	69.85	68.4	67.01	66.26	66.38	118.54
OASPL	97.78	98.48	98.77	97.77	98.44	95.81	95.82	95.57	95.58	95.76	96.37	138.59

NASA Lewis Allison AST Jet Noise Test 1996

rdg 125
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld ACOU
nozbld -50%
anoz 41.226
ambc 35.02
amixb 78.39
scale 4
vid 863.71
m01 0.2028
pamb 14.2162
tamb 500.366
rhumid 81.64
winds1 0
nprc 1.536
nprb 1.614
ptc 21.8361
ptb 22.9449
wactc 2.155
wactb 17.245
ttc 1320.49
ttb 504.389
ptmix 22.8218
ttmix 595.043
mixgmd 0.722187
grsvixp 16756
badchan (26)
bkgnd 115
escdate 18.Nov.96
esctime 20:29:59
DADSdate 97.08.19
DADStime 20:29:59
blchdate 18.Nov.96
blchtime 20:29:59
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Tue Aug 19 17:00:38 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.06	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.69	53.17	53.24	53.21	53.24	53.23	55.64	54	52.4	55.39	55.09	54.87	54.74	54.7	54.74	57.09	56.84	56.78	56.75	56.79	56.61	56.17	55.57	120.83
100	50.4	50.46	53.45	53.77	54.03	53.48	54.84	55.32	54.55	53.85	55.46	55.73	55.64	55.23	54.72	54.26	56.88	57.23	57.68	57.95	57.88	57.35	56.2	121.29
130	52.31	53.05	53.32	55.14	55.25	55.09	56.82	54.6	54.43	55.61	55.28	55.12	55.36	57.39	57.52	57.65	57.7	57.88	59.23	59.1	58.53	57.23	55.37	122.2
160	52.8	54.6	55	55.26	56.68	56.84	57.38	56.74	56.51	57.55	57.47	57.35	58	57.61	57.53	58.55	58.36	58.24	57.88	57.29	57.17	55.11	51.92	122.2
200	53.6	54.36	56.06	56.15	57.15	57.02	57.88	57.4	57.03	57.56	57.45	58.23	58.24	58.46	59.65	59.67	60.55	59.96	59.01	57.86	56.24	55.35	52.5	122.99
250	54.85	56.46	57.86	56.68	58.85	59.22	59.26	57.8	58.1	59.14	60.44	60.83	61.54	61.54	61.96	61.54	61.16	60.22	58.95	57.73	55.64	52.63	49.01	124.24
320	54.4	55.07	55.96	56.62	57.3	58.23	58.63	58.59	58.51	59.46	58.61	59.27	59.37	59.43	59.84	59.51	59.13	58.27	57.52	55.75	53.57	50.65	46.49	122.67
400	53.83	55.94	57.15	57.89	58.48	58.91	59.3	59.41	59.81	60.11	60.74	60.79	60.92	60.93	60.84	60.52	59.5	58.51	56.59	54.76	52.01	48.71	44.33	123.42
500	53.15	55.02	56.33	57.17	58.2	59.1	59.36	59.5	59.85	60.26	60.46	60.85	61.03	61	60.75	60.25	59.34	57.49	55.62	53.2	50.24	46.61	41.81	123.14
630	53.71	56.07	57.24	57.9	58.41	58.9	59.5	59.46	59.62	60	60.69	61.17	61.15	61.4	61.05	59.76	58.23	57.02	55.35	52.97	50.06	46.05	40.59	123.16
800	53.86	56.72	57.6	57.96	58.35	59.15	59.53	60.04	60.46	60.49	60.91	61.08	61.25	61.47	61.21	60.2	58.42	56.5	54.38	51.82	48.34	43.93	38.45	123.28
1000	53.82	56.66	57.73	58.15	58.72	59.29	59.94	59.91	60.36	60.86	61.15	61.65	62.05	62.04	61.89	60.35	57.95	55.79	53.67	51.08	47.43	42.93	37.17	123.5
1300	53.37	56.44	57.55	58.09	58.59	59.32	59.8	60.43	60.71	60.92	61.27	61.55	62.33	62.94	63.34	61.06	57.51	56.02	52.71	49.67	45.67	40.84	34.55	123.76
1600	52.97	55.78	56.85	57.35	57.84	58.57	59.31	60.21	60.59	61.19	61.85	62.52	63.15	63.96	63.89	61.12	57.09	54.05	51.27	48.09	44.18	39.26	32.57	123.95
2000	51.05	53.94	55.33	56.06	56.75	57.5	58.15	59.88	60.45	60.96	61.55	62.37	63	63.42	63.11	60.33	56.16	52.76	49.46	45.78	41.52	36.23	29.06	123.33
2500	48.44	51.57	52.99	53.74	54.49	55.21	55.88	58.73	59.32	59.93	60.85	61.36	62.01	62.31	61.42	58.55	54.64	50.72	47.11	43.25	36.67	32.91	24.86	121.84
3200	44.32	47.5	49.24	50.29	51.02	51.89	52.67	58.5	57.05	57.82	58.39	59.32	59.7	59.43	57.85	55.17	51.43	47.32	43.32	38.96	33.64	27	13.94	119.22
4000	38.74	42.34	44.28	45.36	45.96	46.87	47.85	53.03	53.85	54.03	54.74	55.34	55.42	54.44	52.59	49.88	46.12	41.97	37.59	32.57	26.41	16.19	0	114.87
5000	30.84	34.72	36.9	38.17	39.06	40.29	41.58	48.45	48.73	48.81	48.1	49.24	48.91	47.64	45.53	42.39	38.42	33.83	28.79	22.04	0	0	0	108.79
6300	16.76	23.48	26.66	28.36	29.56	31.27	32.99	42.4	42.57	42.23	42.07	42.05	41.28	39.5	36.73	33.06	28.58	22.49	10.04	0	0	0	0	101.5
8000	0	0	0	0	0	5.05	13.75	33.96	34.08	33.67	33.33	32.53	30.55	27.81	23.9	17.7	0	0	0	0	0	0	0	91.9
10000	0	0	0	0	0	0	0	18.55	16.84	14.97	11.56	0	0	0	0	0	0	0	0	0	0	0	0	72.72
OASPL	65.04	67.15	68.28	68.86	69.46	69.96	70.59	70.96	71.26	71.74	72.14	72.62	73.03	73.27	73.14	71.88	70.49	69.32	68.33	67.2	65.91	64.29	62.18	135.17
PNL	74.28	76.95	78.28	78.98	79.63	80.3	80.99	81.53	81.96	82.48	83.01	83.59	84.03	84.16	83.53	81.39	78.54	75.81	73.31	70.81	67.96	64.64	60.45	82.92

NASA Lewis Allison AST Jet Noise Test 1998

rdg	124
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	905.72
m01	0.20179
pamb	14.2185
tamb	500.519
rhumid	81.47
winds1	0
nprc	1.735
nprb	1.818
ptc	24.6691
ptb	25.8492
wacic	2.488
wactb	19.355
ttc	1404.58
ttb	503.614
ptmix	25.7158
ttmix	805.506
mixpnd	0.750742
gravixp	19785.5
badchan	(10,28)
bkgnd	115
escdate	18.Nov.96
esctime	20:22:42
DADSdate	97.08.19
DADStime	20:22:42
btchdate	18.Nov.96
btchtime	20:22:42

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 17:01:22 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.43	78.13	78.58	78.87	77.08	77.22	77.38	77.56	77.81	78.13	78.56	79.09	79.74	80.53	81.45	82.51	83.71	85.04	86.51	88.03	89.59	91.32	93.62	125.44
100	76.78	77.67	78.37	78.92	79.36	79.73	80.04	80.32	80.59	80.86	81.14	81.46	81.88	82.46	83.25	84.27	85.56	87.13	88.95	90.83	92.62	94.33	96.21	127.97
130	77.9	78.29	78.46	78.5	78.48	78.45	78.46	78.54	78.72	79.03	79.47	80.06	80.83	81.77	82.9	84.21	85.7	87.38	89.21	91	92.59	94.01	95.44	127.65
160	79.24	79.81	80.14	80.31	80.4	80.46	80.54	80.68	80.92	81.27	81.76	82.39	83.18	84.04	85.04	86.14	87.33	88.62	89.98	91.25	92.29	93.11	93.86	128.33
200	79.45	79.72	79.86	80.11	80.53	81.05	81.55	81.99	82.37	82.75	83.13	83.56	84.04	84.6	85.24	85.98	86.79	87.68	88.84	89.48	90.02	90.21	90.1	127.59
250	79.82	80.67	81.3	81.71	81.88	82.07	82.54	83.18	83.1	83.11	83.9	84.73	85.42	86.04	86.63	87.34	88.16	88.81	89.19	89.63	90.12	90.39	89.98	128.45
320	80.85	81.82	82.38	82.58	82.62	82.51	82.29	82.19	82.43	83.02	83.79	84.53	85.24	85.98	86.7	87.39	88.05	88.68	88.99	88.89	88.41	87.63	86.62	128.12
400	80.98	82.08	82.94	83.28	83.22	83.31	83.73	84.34	84.66	84.72	84.97	85.51	86.05	86.61	87.25	87.69	87.83	87.85	87.84	87.87	87.14	86.17	84.69	128.4
500	81.91	82.73	83.28	83.58	83.69	83.77	83.96	84.28	84.58	84.98	85.52	86.16	86.8	87.34	87.78	88.16	88.54	88.74	88.58	87.94	86.83	85.31	83.37	128.84
630	82.26	83.24	83.69	83.92	84.15	84.53	84.95	85.17	85.28	85.42	85.74	86.49	87.76	88.25	88.34	88.14	87.82	87.59	87.32	86.72	85.71	84.4	82.87	128.99
800	82.78	84.47	85.1	85.23	85.29	85.4	85.58	85.88	86.17	86.47	86.87	87.43	88.13	88.61	88.74	88.55	88.31	88.12	87.8	87.28	86.44	84.85	83.2	129.7
1000	84.04	85.68	85.94	85.64	85.65	85.91	86.5	86.88	86.99	87.07	87.54	88.24	89.2	89.72	89.67	88.95	88.15	87.74	87.49	86.93	85.88	84.53	82.96	130.28
1300	84.54	86.42	86.78	86.75	87	87.38	87.72	87.99	88.31	88.69	88.97	89.44	90.64	91.99	91.33	89.65	88.33	87.84	87.5	87.02	86.14	84.81	83.43	131.48
1600	86.21	87.84	88.31	88.33	88.3	88.36	88.6	88.96	89.3	89.86	90.84	91.94	93.14	94.08	93.38	91.25	89.22	88.32	87.9	87.38	86.65	86.05	85.92	133.05
2000	87.02	88.67	89.16	89.26	89.37	89.59	89.97	90.42	90.91	91.57	92.55	93.88	95.4	96.11	95.78	93.13	90.08	89.01	88.42	87.64	86.77	86.15	86.18	134.7
2500	86.77	88.87	89.61	89.64	90.02	90.32	90.72	91.21	91.78	92.83	93.99	95.75	97.29	97.71	96.78	94.14	91.28	89.55	88.25	87.01	85.88	85.07	84.79	136.87
3200	87.53	89.82	90.22	90.3	90.43	90.72	91.25	92.02	92.98	94.18	95.58	97.26	98.75	98.94	97.4	94.62	91.94	90.15	88.72	87.37	86.17	85.32	85.05	138.83
4000	87.68	89.95	90.48	90.35	90.35	90.85	91.49	92.21	93.15	94.39	95.99	97.84	98.85	98.51	96.87	94.29	91.83	90.22	88.8	87.32	86	85.25	85.25	138.86
5000	87.59	90.07	90.56	90.17	89.84	90.12	90.73	91.41	92.25	93.47	95.19	97.14	98.29	97.78	96	93.28	90.71	89.11	87.78	86.32	85	84.16	83.97	138.25
6300	87.36	90	90.48	90.07	89.82	90.08	90.6	91.2	91.94	92.92	94.18	95.89	97.3	97.15	95.26	92.34	89.6	87.78	86.44	85.18	84.03	83.37	83.14	135.54
8000	87.17	90.02	90.63	90.38	90.22	90.56	91.18	91.45	91.66	92.24	93.56	95.53	96.71	96.53	94.4	91.12	88.43	86.97	85.77	84.37	83	82.21	82.04	135.14
10000	85.88	88.16	88.5	88.68	89.19	89.73	89.83	89.87	89.58	89.68	90.79	92.18	93.6	93.94	92.08	88.93	86	83.97	82.74	81.34	79.75	78.9	79.05	132.79
OASPL	97.98	99.99	100.51	100.46	100.5	100.79	101.23	101.7	102.23	103.01	104.24	105.8	107.06	107.18	105.99	103.87	102.22	101.64	101.49	101.5	101.64	101.99	102.71	146.18

NASA Lewis Allison AST Jet Noise Test 1996

rdg	124
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	905.72
m01	0.20179
pamb	14.2165
tamb	500.519
rhumid	81.47
winds1	0
nprc	1.735
nprb	1.818
ptc	24.6691
ptb	25.8492
wactc	2.468
wactb	19.355
ttc	1404.58
ttb	503.614
ptmix	25.7158
tmix	605.508
mixpnd	0.750742
grsvixp	19765.5
badchan	(10,26)
bkgnd	115
sacdate	18.Nov.96
sactime	20:22:42
DADSdate	97.08.19
DADStime	20:22:42
btchdate	18.Nov.96
btchtime	20:22:42

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 17:01:33 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	53.43	56.9	57.12	57.27	57.52	57.77	60.38	57.52	55.92	59.57	59.28	59.03	58.89	58.88	58.96	61.83	61.74	61.89	62.13	62.46	62.57	62.38	61.98	125.99
100	54.17	54.68	57.66	57.98	58.12	57.37	58.63	60.25	59.62	59.03	58.7	60.61	60.72	60.57	60.37	60.33	62.91	63.63	64.42	65.02	65.17	64.78	63.62	127.66
130	56.93	57.21	57.2	59.18	59.13	58.84	60.45	58.43	58.38	59.75	59.58	58.54	59.84	62	62.28	62.57	62.83	63.28	65.32	65.47	65.12	64.03	62.25	127.79
160	56.86	58.7	59.01	59.14	60.36	60.5	61.48	60.5	60.29	61.7	61.82	61.98	63.01	62.89	62.99	63.14	63.97	63.85	63.5	63.12	62.97	61.18	58.25	127.29
200	57.63	58.01	59.51	59.94	61.17	61.23	62.31	61.71	61.56	62.32	62.34	63.1	62.98	62.83	63.53	63.45	63.49	64.23	63.11	62.13	61.18	60.59	57.81	127.27
250	58.13	60.01	61.37	61.98	61.8	62.12	62.01	62.72	63.29	62.89	64.03	64.31	65.01	65.08	65.44	65.24	65.52	65.01	64.04	62.83	60.55	57.3	53.38	128.23
320	58.32	59.22	60.17	61.21	61.91	62.22	62.55	61.57	61.7	62.48	62.42	63.1	63.49	63.47	63.75	63.45	63.36	62.67	62.23	60.66	58.47	55.59	50.64	126.77
400	58.02	59.97	61.26	61.83	62.1	62.35	62.66	63.43	63.78	63.65	63.84	64.13	64.12	64.67	64.94	64.92	64.08	63.35	61.73	60.02	57.24	53.54	48.41	127.44
500	58.07	59.5	60.48	61.4	61.98	62.6	63.17	63	63.26	63.6	63.98	64.31	64.92	64.83	64.3	63.88	63.13	61.93	60.51	58.24	55.1	51.05	45.73	126.97
630	58.36	59.98	61.27	61.86	62.47	62.85	63.38	63.52	63.55	63.75	63.98	64.44	65.13	65.38	64.83	63.79	62.55	61.46	59.89	57.58	54.59	50.11	44.38	127.1
800	58.44	61.07	62.03	62.31	62.64	63.18	63.97	63.77	64.08	64.08	64.38	64.82	65.05	65.04	64.62	63.62	62.33	60.75	59.1	56.88	53.42	48.71	42.52	127.18
1000	58.51	61.08	62.05	62.54	63.17	63.8	64.43	64.32	64.41	64.48	64.71	65.23	66.13	66.13	65.38	63.49	61.38	59.88	58	55.44	51.91	47.11	40.45	127.48
1300	59.02	61.45	62.58	63.3	63.93	64.43	64.86	64.92	65.29	65.71	65.99	66.17	67.22	68.15	67.02	64.23	61.3	59.04	57.05	54.77	51.36	46.87	40.82	128.37
1600	59.56	62.05	63.25	63.93	64.38	64.83	65.47	65.35	65.78	66.31	67.18	68.13	69.22	69.55	68.34	65.22	61.59	59.23	56.99	54.04	50.38	45.89	39.98	129.39
2000	58.85	61.39	62.63	63.39	64.1	64.72	65.32	66.09	66.61	67.25	68.21	69.41	70.39	70.43	69.1	65.6	61.52	58.68	55.8	52.28	47.93	42.43	35.17	129.98
2500	56.82	60	61.51	62.3	63	63.89	64.37	65.9	66.52	67.35	68.58	70.1	71.24	71.01	69.09	65.2	61.11	57.71	54.21	50.14	45.38	39.52	31.32	130.07
3200	54.7	57.83	59.43	60.15	60.76	61.59	62.43	66.28	66.23	67.28	68.44	69.72	70.53	69.78	67.25	63.38	59.28	55.58	51.8	47.35	41.95	36.28	25.98	129.07
4000	50.2	54.16	55.74	56.21	56.58	57.4	58.28	63.25	64.14	65.12	66.41	67.78	68.1	66.71	63.78	59.88	55.42	51.73	47.48	42.15	35.82	27.81	8.27	126.42
5000	43.37	47.82	49.54	50.21	50.83	51.72	52.59	58.04	59.74	60.88	61.83	63.08	63.47	62	58.78	54.21	49.42	44.99	40.08	34.09	26.54	9.28	0	121.66
6300	32.81	37.92	40.38	41.8	42.48	43.71	44.91	53.4	54.15	54.84	55.57	56.56	56.83	55.31	51.72	46.52	40.88	35.88	30	21.72	0	0	0	115.15
8000	9.33	22.2	25.58	27.48	29.12	30.68	31.74	45.48	45.67	45.85	48.43	47.33	47.13	45.09	40.74	34.58	27.8	20.52	-2.97	0	0	0	0	105.88
10000	0	0	0	0	0	0	0	32.02	31.51	30.87	30.84	30.53	30	27.67	21.48	-2.32	0	0	0	0	0	0	0	89.85
OASPL	70.03	72.12	73.27	73.82	74.48	74.9	75.57	76.11	76.48	77.05	77.74	78.64	79.39	79.29	78.17	76.33	75.07	74.28	73.65	72.83	71.88	70.53	68.67	140.58
PNL	81.13	83.71	84.98	85.7	86.33	86.89	87.59	88.34	88.98	89.77	90.67	91.74	92.46	92.07	90.44	87.44	84.47	82.06	79.66	76.84	73.98	70.94	66.67	90.14

NASA Lewis Allison AST Jet Noise Test 1996

rdg	128
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	549.5
m01	0.30185
pamb	14.164
tamb	499.415
rhumid	80.53
winds1	0
nprc	1.178
nprb	1.219
ptc	16.6569
ptb	17.2659
wactc	1.153
wactb	9.948
ttc	1119.89
ttb	505.822
ptmix	17.2027
ttmix	569.602
mixpnd	0.469611
grsvixp	6100
badchan	(26)
bkgnd	116
escdate	18.Nov.96
esctime	20:59:04
DADSdate	97.08.19
DADStime	20:59:04
btchdate	18.Nov.96
btchtime	20:59:04

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 17:11:26 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	0	59.39	59.09	60.63	63.21	62.83	62	61	60.84	60.59	60.49	60.33	60.14	59.95	59.79	59.69	59.69	59.87	0	0	0	102.92
250	60.51	64.86	67.83	69.9	70.16	69.85	69.48	69.45	69.6	69.89	70.27	70.66	71.08	71.36	71.64	71.9	71.91	72.06	72.26	72.06	71.66	71.2	67.22	113.31
320	63.52	68.06	70.07	70.63	70.41	69.54	69.2	69.74	70.33	70.44	70.51	70.74	71.17	71.86	72.35	72.3	72.03	71.95	71.84	71.11	70	68.87	63.48	113.55
400	56.17	64.95	67.52	68.38	68.4	67.62	68.33	68.75	69.54	70.35	70.77	71.64	71.17	71.76	72.77	72.86	72.3	71.73	70.95	69.51	65.31	64.38	61.68	112.94
500	62.33	67.45	69.73	70.38	70.09	70.33	70.88	71.29	71.47	71.64	72.01	72.61	73.3	74	74.57	74.86	74.82	74.31	73.33	72.01	70.46	68.92	67.05	115.03
630	59.97	66.96	68.96	69.36	68.97	69.2	68.62	69.48	70.16	70.65	71.11	71.81	72.66	73.41	73.81	73.64	73.58	72.69	71.51	69.44	67.51	66.33	66.35	113.89
800	60.88	67.25	66.62	68.49	68.59	68.8	68.82	69.03	69.57	70	70.49	71.25	72.15	72.76	72.88	72.45	71.59	70.38	68.69	67.14	65.62	64.7	64.72	112.98
1000	60.14	66.26	67.11	66.98	67.31	67.35	67.42	68.31	68.83	68.93	69.96	70.82	71.19	71.36	71.2	70.82	70.37	69.44	67.94	66.19	64.66	63.71	63.67	111.65
1300	58.4	65.23	66.11	66.13	66.2	66.54	67.17	67.29	67.14	67.01	67.53	68.52	69.41	69.43	68.87	68.45	68.41	67.4	65.79	64.38	63.35	62.59	62.62	110.15
1600	55.4	63.63	64.14	64.81	65.1	65.35	66.07	66.27	65.93	65.87	66.46	67.35	67.91	68.11	67.93	67.55	67.16	66.3	65.15	63.96	62.71	61.64	61.35	108.97
2000	50.4	62.35	63.16	63.79	63.64	63.68	64.03	64.31	64.39	64.57	64.92	65.77	66.38	66.5	66.15	65.52	64.92	64.45	63.71	62.44	61.1	60.2	60.23	107.34
2500	54.28	61.74	62.65	62.75	62.78	62.68	62.88	63.01	62.75	62.56	63.2	64.51	65.36	65.63	64.85	63.66	63.25	62.32	60.96	60.02	59.36	58.7	58.8	106.01
3200	55.42	61.79	62.62	63.42	63.45	63.41	63.57	63.67	63.51	63.23	63.47	64.15	64.61	64.71	64.1	63.21	62.67	61.75	60.46	59.4	58.52	57.84	57.91	106.01
4000	55.6	61.31	62.97	63.71	63.58	63.67	63.91	63.63	63.31	63.2	63.87	64.78	64.69	64	63.19	62.51	61.9	61.08	60.05	58.96	57.77	56.84	56.81	105.93
5000	57.67	62.47	63.64	64.77	64.26	64.68	65.2	65.15	64.73	64.45	65.08	65.77	65.45	64.78	64.1	63.33	62.38	61.3	60.26	59.31	58.34	57.45	57.29	106.93
6300	70.23	64.05	65.44	66.21	65.91	66.27	66.99	67.03	66.68	66.24	66.62	67.31	67.04	66.51	65.78	64.74	63.53	62.42	61.41	60.58	59.75	58.98	56.85	108.82
8000	66.8	65.46	66.91	67.87	67.36	67.46	67.92	68.13	67.89	67.29	67.83	68.56	68.32	67.64	66.77	65.79	64.72	63.72	62.79	61.86	60.95	60.15	59.95	109.86
10000	98.02	65.62	66.2	67.47	67.77	67.74	67.05	67.24	67.11	66.24	66.78	67.12	66.93	66.56	66.05	65.37	64.49	63.42	62.3	61.35	60.37	59.37	58.97	124.72
OASPL	98.03	77.47	79.08	79.8	79.73	79.69	79.87	80.16	80.36	80.45	80.92	81.59	82	82.34	82.5	82.36	82	81.41	80.57	79.42	77.98	77.03	75.16	127.09

NASA Lewis Allison AST Jet Noise Test 1996

rdg	128
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	549.5
m01	0.30185
pamb	14.164
tamb	499.415
rhumid	80.53
winde1	0
nprc	1.176
nprb	1.219
ptc	16.6569
ptb	17.2659
wacic	1.153
wactb	9.948
ttc	1119.89
ttb	505.822
ptmix	17.2027
ttmix	569.602
mixpnd	0.469611
gravixp	6100
badchan	(26)
bkgnd	116
escdate	18.Nov.96
esctime	20:59:04
DADSdate	97.08.19
DADStime	20:59:04
btchdate	18.Nov.96
btchtime	20:59:04

**Scenario: Fly-over, full-scale. 1500' sideline, standard day

Processing date: Tue Aug 19 17:11:36 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (t	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
160	0	0	37.61	48.23	47.71	48.66	49.47	42.51	44.59	43.79	45.22	48.52	48.07	47.4	46.85	48.14	47.17	47.96	34.49	33.42	0	0	0	109.82
200	41.03	45.66	48.96	50.49	50.59	49.93	48.91	49.01	50	50.72	51.29	51.57	51.38	51.31	51.23	50.14	48.32	47.74	47.04	45.43	44.08	41.42	33.93	113.94
250	39.04	44.67	48.12	48.39	47.38	48.78	47.33	49.14	49.1	48.5	48.15	48.11	48.14	48.86	49.63	49.38	48.25	48.79	46.47	44.17	41.33	38.1	29.94	111.92
320	35.73	43.17	48.27	47.77	47.68	48.55	49.36	47.84	49.06	49.48	49.53	49.95	50.1	50.85	51.39	51.1	50.3	49.05	45.08	42.17	38.44	32.94	29.18	112.92
400	38.53	44.14	47.1	47.81	47.47	47.85	47.37	50.01	50.34	50.54	50.82	50.97	51.33	51.12	50.87	50.01	48.69	46.88	46.82	44.1	40.68	36.7	31.41	113.14
500	35.29	43.64	45.61	48.11	46.13	46.77	46.89	47.83	48.37	48.78	49.27	49.8	49.71	49.79	49.17	48.21	46.48	44.28	44.39	40.81	36.87	33.01	29.4	111.39
630	35.78	42.83	44.47	44.4	44.66	44.45	44.77	46.96	47.1	46.98	46.84	47.37	47.99	48.32	47.65	46.14	44.62	42.3	41.28	37.66	33.86	30.09	25.69	109.59
800	34.54	41.13	42.41	42.7	43.25	43.61	44.07	45.75	48.23	48.19	48.69	47.08	46.78	45.76	44.41	43.05	41.84	39.53	39.43	35.79	31.87	27.75	23.25	108.04
1000	32.08	39.11	40.39	40.94	41.31	41.82	42.65	44.25	43.86	43.38	43.54	44.01	44.42	43.69	42.66	41.47	40.07	37.8	36.26	33.01	29.53	25.32	20.18	105.83
1300	27.62	37.21	38.05	38.92	39.11	39.53	40.06	42.69	42.28	42.12	42.28	42.38	42.27	41.9	40.69	38.8	36.86	35.1	34.89	31.62	27.61	22.8	15.81	103.9
1600	21.61	34.8	36.15	36.9	37.34	37.25	37.54	40.03	39.76	39.17	38.18	40.13	40.39	39.48	37.65	36.01	34.3	31.82	32.8	28.94	24.66	19.36	0	101.41
2000	24.51	32.34	34.12	35.17	35.74	36.17	36.66	37.73	37.45	37.13	37.59	38.26	38.32	37.93	36.29	34.02	32.21	29.62	28.48	25.12	21.14	8.43	0	99.51
2500	22.11	29.73	31.89	33.23	33.69	34.12	34.63	36.91	36.75	36.37	36.25	36.52	36.13	35.11	33.44	31.49	29.32	26.59	26.28	22.46	14.78	0	0	97.64
3200	16.81	25.36	28.17	30.07	30.51	31.49	32.49	34.62	34.4	34.13	34.65	35.16	34.38	32.81	31.04	29.06	26.47	23.09	23.24	14.55	0	0	0	95.32
4000	1.37	17.56	22.05	25.34	25.93	27.24	28.46	32.67	32.38	32.03	32.2	32.4	31.43	30.01	28.16	25.58	21.38	4.85	14.17	0	0	0	0	92.3
5000	11.05	0	0	9.42	10.4	16.06	19.02	29.01	28.89	28.47	28.57	28.78	27.71	25.66	22.27	14.96	0	0	0	0	0	0	0	87.72
6300	0	0	0	0	0	0	0	19.63	19.3	17.84	17.98	17.3	11.7	0.58	0	0	0	0	0	0	0	0	0	78.55
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	46.48	52.73	55.15	56.4	56.71	56.89	57.07	57.48	57.97	58.08	58.36	58.72	58.79	58.92	58.73	58.08	56.95	55.61	53.77	51.2	48.2	44.94	38.61	121.11
PNL	51.3	58.92	61.24	62.65	62.94	63.13	63.68	64.37	64.81	64.56	64.83	65.16	65.2	64.9	64.43	63.47	62.09	60.23	57.71	54.25	49.82	44.64	37.46	63.47

NASA Lewis Allison AST Jet Noise Test 1996

rdg	129
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mxbid	ACOU
nozbid	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	785.17
m01	0.30081
pamb	14.1615
tamb	499.851
rhumid	83.32
winds1	0
nprc	1.386
nprb	1.434
ptc	19.6278
ptb	20.3076
wactc	1.969
wactb	14.134
ttc	1178.98
ttb	505.133
ptmix	20.2245
ttmix	587.528
mixpnd	0.660702
grsvixp	12643.8
badchan	(26)
bkgnd	116
escdate	18.Nov.96
esctime	21:04:20
DADSdate	97.08.19
DADStime	21:04:20
btchdate	18.Nov.96
btchtime	21:04:20

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 17:15:38 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (i	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	63.89	67.32	67.53	67.58	67.67	67.92	68.41	69.19	70.37	71.96	73.19	73.88	75.44	109.1
130	0	0	0	0	61.91	63.19	66.72	66.09	65.68	65.68	65.91	66.26	66.65	66.99	67.23	67.46	67.88	69.32	70.23	71.21	72.14	73.14	74.91	109.76
160	62.69	65.27	65.48	67.02	67.9	68.21	68.35	69.59	70.14	69.49	69.72	69.85	69.59	69.55	69.49	69.61	70.36	70.96	71.65	72.69	73.57	74.06	74.35	112.58
200	62.77	67.99	69.5	70.07	70.03	70.03	70.17	70.43	70.86	70.8	70.69	71.08	70.89	71.1	71.7	72.28	72.57	72.54	72.43	72.44	72.54	72.67	72.75	113.86
250	69.25	71.5	72.75	73.17	73.05	72.96	73.03	73.08	73.22	73.48	73.69	74.4	74.96	75.48	75.9	76.15	76.18	76.02	75.69	75.27	74.86	74.65	74.84	117.15
320	70.19	72.49	73.96	74.48	74.17	73.47	73.28	73.63	73.96	74.09	74.16	74.63	75.26	75.86	76.13	76.14	75.9	75.42	74.75	73.95	73.1	72.38	71.97	117.34
400	69.95	72.79	74.01	74.33	74.3	74.34	74.62	75.01	75.21	75.36	75.65	75.92	75.96	76.22	76.46	76.25	75.75	75.06	74.38	73.71	73.08	72.36	71.86	117.89
500	70.85	73.92	75.27	75.45	75.45	75.65	75.94	76.44	76.78	76.79	77.13	77.61	78.16	78.72	79.09	79.05	78.44	77.35	76	74.68	73.45	72.45	72.3	119.67
630	70.53	73.75	75.09	75.45	75.41	75.42	75.6	75.61	75.65	76.11	76.4	76.71	77.11	77.45	77.43	77.01	76.27	75.36	74.4	73.49	72.53	71.63	71.25	118.68
800	71.73	74.89	75.74	75.91	76.08	76.37	76.64	76.62	77.07	77.5	78	78.32	78.06	78.2	78.34	77.78	76.6	75.4	74.29	73.28	72.35	71.69	71.75	119.61
1000	72.75	75.63	76.51	76.49	76.35	76.41	76.53	76.76	77.08	77.5	78.04	78.45	78.33	78.62	78.99	78.86	78.03	76.81	75.5	74.26	73.15	72.32	72.2	120.04
1300	73.56	75.84	76.56	76.76	76.79	76.83	77.13	77.57	77.92	78.11	78.33	78.59	78.84	79.43	79.84	79.45	78.19	76.97	75.93	74.88	73.88	73.14	72.95	120.54
1600	73.3	75.71	76.44	76.8	76.96	76.78	76.9	77.46	78.01	78.55	79.07	79.43	79.34	78.84	80.37	80.18	79.1	77.83	76.1	74.66	73.46	72.66	72.54	120.88
2000	72.71	75.45	76.32	76.57	76.66	76.72	76.95	76.99	77.25	77.78	78.46	79.16	78.88	79.28	79.99	79.96	78.95	77.46	75.92	74.49	73.3	72.48	72.41	120.52
2500	72.17	74.22	75.16	75.78	75.83	75.68	75.71	75.84	76.19	76.77	77.46	78.2	78.22	78.71	79.21	79	78.01	76.58	75.11	73.94	72.93	72.06	71.92	119.61
3200	71.52	73.28	74.43	75.14	75.22	74.94	75.15	75.36	75.57	75.76	76.16	76.51	76.55	76.94	77.32	77.12	76.14	74.89	73.61	72.44	71.4	70.67	70.68	118.35
4000	76.69	72.83	73.84	74.6	74.72	74.48	74.86	74.65	74.41	74.52	74.81	75.07	74.45	74.49	74.7	74.34	73.43	72.17	70.82	69.69	68.78	68.19	68.46	117.15
5000	86.86	72.54	73.73	73.97	73.77	73.81	74.3	74.14	73.89	73.48	73.58	73.83	72.82	72.35	72.24	71.69	70.49	69.14	67.96	67.1	66.41	65.96	66.37	117.7
6300	79.48	72.12	73.39	73.95	73.99	73.94	74.39	74.27	73.83	73.58	73.02	72.96	72.01	71.54	71.09	70.06	68.73	67.36	66.2	65.37	64.71	64.4	65.1	115.78
8000	138.55	72.59	73.6	74.25	74.56	74.65	75.13	74.96	74.43	73.97	73.6	73.71	72.04	71.27	70.75	69.51	68.05	66.69	65.6	64.96	64.2	63.8	64.54	165.13
10000	99.25	71.89	71.86	72.86	74.11	74.18	73.83	73.54	72.95	72.16	71.62	71.15	69.22	69.06	69.06	67.77	66.27	64.74	63.41	62.52	61.81	61.36	61.97	128.13
OASPL	138.55	86.25	87.24	87.64	87.73	87.71	87.93	88.11	88.26	88.48	88.83	89.22	89.16	89.5	89.84	89.64	88.82	87.8	86.82	86.02	85.41	85.03	85.27	165.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg 129
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
nambld NATR full wedge
rigbld JER w/ external supplement
mixbld ACOU
nozbld -50%
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 785.17
m01 0.30061
pamb 14.1615
tamb 499.651
rhumid 83.32
winds1 0
nprc 1.386
nprb 1.434
ptc 19.6278
ptb 20.3076
wactc 1.969
wactb 14.134
ttc 1178.98
ttb 505.133
ptmix 20.2245
ttmix 587.528
mixpnd 0.680702
grsvlup 12643.8
badchan (26)
bkgnd 116
eacdate 18 Nov 96
eactime 21:04:20
DADSdate 97.08.19
DADStime 21:04:20
btchdate 18 Nov 96
btchtime 21:04:20
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Tue Aug 19 17:15:48 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1506.73	1500	1506.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	46.57	0	0	0	35.72	43.19
100	0	0	0	42.69	45.58	47.36	47.08	45.98	45.54	46.47	46.47	47.51
130	42.03	44.11	46.4	46.66	48.3	49.54	49.25	49.41	49.25	51.16	50.87	50.69
160	41.06	47.1	48.44	49.77	50.23	51.39	52.83	50.15	50.48	49.73	49.9	50.73
200	47.86	50.53	52.71	53.86	54.42	53.73	53.1	52.64	53.92	54.66	55.32	55.35
250	47.02	49.55	50.96	51.26	51.65	52.16	53.23	53.02	52.72	52.12	51.46	51.87
320	46.56	50.33	52.25	53.47	53.76	54.31	54.56	54.09	54.74	54.85	54.9	54.81
400	47.04	50.98	52.89	53.19	53.38	53.5	53.79	55.17	55.58	55.87	56.12	56.17
500	46.43	50.34	52.06	52.94	53.31	54.12	54.64	53.95	54.22	54.58	54.92	55.19
630	46.96	51.02	52.4	52.87	53.26	53.5	53.85	54.74	54.78	54.9	55.06	55.54
800	47.11	50.83	52.09	52.72	53.12	53.54	53.96	54.19	54.48	54.78	55.08	54.98
1000	47.32	50.36	51.61	52.25	52.83	53.05	53.31	54.52	54.98	55	55.06	55.15
1300	46.04	49.34	50.87	51.62	51.85	52.1	52.52	53.86	54.33	54.81	54.98	55.09
1600	44.18	47.65	49.03	49.86	50.42	50.59	50.67	52.69	52.75	53.04	53.51	53.81
2000	41.81	44.7	46.49	47.5	47.94	48.09	48.38	50.58	50.81	51.04	51.32	51.45
2500	38.52	41.19	43.23	44.72	45.26	45.21	45.85	48.68	48.69	48.57	48.42	48.12
3200	44.86	36.74	38.81	40.23	40.81	41.15	41.88	45.73	45.33	45.12	45.07	44.68
4000	39.77	29.96	32.63	33.86	34.53	35.17	36.13	41.79	41.22	40.73	40.21	39.64
5000	20.85	17.01	21.93	24.88	26.53	27.58	28.8	38.37	38	35.83	34.74	34.1
6300	89.2	0	0	0	0	0	0	28.91	28.25	27.34	26.11	25.01
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	69.48	60.66	62.32	63.13	63.59	63.94	64.37	64.72	65.04	65.27	65.48	65.64
PNL	77.85	70.1	71.73	72.74	73.29	73.59	74.01	74.21	74.36	74.53	74.77	74.95

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5785.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	44.51	44.47	44.37	44.22	44.04	45.73	0	0	0	0	0	103.99
80	40.15	43.6	42.83	42.33	42.18	45.77	45.86	45.72	45.11	43.67	42.49	107.93
100	46.98	46.22	47.41	46.41	45.53	47.12	45.41	45.01	44.3	43.34	42.6	110.61
130	49.41	49.45	48.81	49.7	48.89	47.53	46.71	46.41	45.46	43.73	41.24	113.24
160	50.24	51.39	51.26	52.56	51.81	52.02	47.39	45.99	44.32	42.3	41.01	114.74
200	55.49	55.57	55.22	54.11	53.15	51.2	50.5	48.63	47.24	44.83	41.92	117.82
250	52.31	52.79	52.98	52.46	51.38	49.78	49.38	47.04	44.48	41.55	38.39	115.78
320	55.34	55.64	55.87	55.16	54.02	52.23	48.45	46.37	44.09	40.87	37.57	117.87
400	55.97	55.6	55.04	53.63	51.62	49.44	49.5	46.76	43.69	40.25	36.78	117.84
500	54.97	54.7	54.17	53.07	51.06	48.87	47.29	44.84	41.89	38.25	34.2	117.07
630	54.79	54.71	54.45	53.52	51.86	49.54	46.46	43.79	40.74	37.36	33.12	117.21
800	54.76	54.65	54.49	53.48	51.2	48.76	46.93	43.89	40.43	36.45	31.81	117.03
1000	54.94	54.9	54.66	53.72	51.69	48.96	46.28	43.48	39.99	35.9	30.63	117.06
1300	54.31	54.13	53.99	52.96	50.78	47.87	45.82	42.27	38.4	33.83	28.19	116.44
1600	53.15	52.94	52.6	51.34	49.04	46.1	44.6	40.95	36.9	32.06	25.7	114.96
2000	50.85	50.46	49.8	48.34	45.9	42.91	42.65	39.04	34.74	29.38	22.4	112.55
2500	47.28	46.6	45.74	43.94	41.39	38.14	39.45	35.5	30.79	24.98	11.55	109.44
3200	43.1	41.72	40.4	38.44	35.47	31.75	34.27	29.94	24.76	14.55	0	105.66
4000	37.67	36.14	34.54	31.77	28.3	23.71	27.56	22.22	9.78	0	0	100.56
5000	32.03	30.09	27.86	23.82	16.35	0	15.42	0	0	0	0	94.34
6300	20.72	15.4	-1.86	0	0	0	0	0	0	0	0	117.52
8000	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	65.38	65.34	65.08	64.27	62.71	61.08	59.14	57.06	55	52.52	50.14	128.2
PNL	74.35	74.1	73.67	72.5	70.4	67.86	64.93	61.64	58.18	53.95	48.82	73.19

NASA Lewis Allison AST Jet Noise Test 1996

rdg	130
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	862.81
m01	0.30192
pamb	14.1615
tamb	499.057
rhumid	80.42
winda1	0
nprc	1.534
nprb	1.611
ptc	21.7237
ptb	22.8142
wactc	2.096
wactb	17.034
ttc	1327.85
ttb	505.463
ptmix	22.6947
ttmix	595.568
mixpnd	0.721116
gravixp	16505.6
badchan	(26)
bkgnd	116
escdate	18.Nov.96
esctime	21:10:49
DADSdate	97.08.19
DADStime	21:10:49
btchdate	18.Nov.96
btchtime	21:10:49

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 17:19:52 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100
roll angle (	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100
80	67.13	68.02	68.74	69.23	69.43	69.15	69.25	70.27	71.01	70.78
100	0	69.2	69.98	70.58	71.01	71.35	71.61	71.81	71.98	72.11
130	69.88	71.12	71.34	71.23	71.18	71.33	71.39	71	70.8	71.23
160	70.61	72.07	72.6	72.88	73.18	73.41	73.49	73.43	73.39	73.49
200	71.89	72.93	73.57	73.92	74.07	74.1	74.07	74.04	74	73.95
250	74.14	75.89	76.62	76.78	76.64	76.48	76.4	76.5	76.75	77.14
320	74.66	75.98	76.61	76.89	77.1	76.82	76.23	76.6	76.99	77.34
400	74.59	76.5	77.58	77.87	77.75	77.59	77.57	77.69	77.73	78.08
500	75.2	77.37	77.99	77.97	78.02	78.37	78.57	78.7	78.89	79.18
630	75.46	77.94	78.94	78.98	79.21	78.34	79.38	79.41	79.64	79.98
800	86.61	79.54	80.06	80.04	80	79.99	80.09	80.28	80.5	80.72
1000	77.66	80.91	81.29	81.1	81	81.07	81.01	80.9	81.1	81.55
1300	77.66	81.11	81.65	81.69	81.57	81.76	81.75	82.05	82.87	82.96
1600	78.76	81.57	82.02	81.83	81.83	82.16	82.45	82.68	82.9	83.28
2000	78.5	81.05	81.96	82.16	82.23	82.39	82.61	83.06	83.44	83.84
2500	77.86	80.36	81.35	81.43	81.57	81.85	82.16	82.45	82.76	83.57
3200	77.01	79.53	80.47	80.81	80.95	81.12	81.5	81.93	82.24	82.82
4000	75.75	78.17	79.12	79.52	79.55	79.76	80.21	80.43	80.8	81.49
5000	75.15	77.2	78.41	78.04	77.69	78.18	78.86	78.63	78.87	79.55
6300	74.56	76.39	77.22	76.91	76.57	77.28	78.2	78.19	78.07	78.46
8000	74.13	76.1	76.97	76.57	76.03	76.86	78.16	77.63	77.16	77.88
10000	87.07	74.69	74.88	74.71	74.7	75.29	75.71	75.24	74.81	75.3
OASPL	92.86	91.29	92.04	92.08	92.05	92.26	92.5	92.67	92.91	93.36

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	69.82	70.78	71.29	71.34	71.52	72.21	73.41	74.49	75.38	76.25	77.59	79.79	83.2	115.37
100	72.2	72.25	72.29	72.4	72.64	73.08	73.72	74.6	75.67	76.91	78.31	80.02	82.35	116.18
130	71.81	72.19	72.55	73.08	73.74	74.51	75.38	76.26	77.19	78.14	79.15	80.43	82.29	116.81
160	73.76	74.15	74.61	75.08	75.58	76.13	76.76	77.45	78.16	78.65	79.56	80.44	81.68	118.14
200	73.95	74.12	74.65	75.63	76.22	76.18	76.28	76.92	77.81	78.47	78.93	79.4	80.09	118.23
250	77.38	77.47	78.47	79.19	79.64	80.07	80.18	79.9	79.7	79.92	80.1	80.07	80.31	120.99
320	77.75	78.25	78.75	79.18	79.51	79.89	79.71	79.57	79.33	79.05	78.62	78.05	77.88	120.88
400	78.6	78.98	79.11	79.55	79.96	80.08	79.9	79.21	78.38	77.81	77.33	76.83	76.46	121.27
500	79.58	80.09	80.61	81.01	81.2	81.15	80.86	80.38	79.65	78.72	77.7	76.8	76.31	122.25
630	80.15	80.29	80.64	81.01	81.11	80.9	80.51	80.04	79.43	78.55	77.52	76.57	76.02	122.59
800	81.03	81.46	81.86	82.1	82.11	81.7	80.83	79.91	79.01	78.08	77.2	76.48	76.22	123.97
1000	81.9	82.3	82.68	83.47	83.54	82.71	81.28	80.19	79.39	78.31	77.24	76.59	76.69	124.33
1300	83.09	83.66	84.34	85.02	85.25	84.55	83.06	81.63	80.4	79.17	78.06	77.37	77.22	125.53
1600	84.02	84.94	85.67	86.19	86.37	85.84	84.39	82.53	80.79	79.5	78.54	77.78	77.57	126.35
2000	84.62	85.55	86.25	86.86	87.22	86.7	84.94	82.97	81.3	80.11	79.19	78.37	78.05	126.86
2500	84.66	85.83	86.62	87.34	87.48	86.64	85.03	83.25	81.69	80.19	79.05	78.22	78.09	126.82
3200	84	85.36	85.74	86.18	86.29	85.55	84.2	82.56	80.94	79.61	78.51	77.69	77.6	126
4000	82.61	83.75	83.77	83.78	83.75	83.14	81.89	80.44	79.09	77.95	76.88	76.03	76.09	124.18
5000	80.47	81.32	81.22	80.9	80.61	79.99	78.71	77.36	76.19	75.23	74.36	73.68	73.8	121.94
6300	78.63	79	78.76	78.2	77.63	76.92	75.72	74.4	73.21	72.29	71.51	70.93	71.21	120.18
8000	78.32	76.46	77.55	76.56	75.74	74.8	73.54	72.32	71.3	70.49	69.71	69.12	69.38	119.38
10000	75.56	74.93	74.03	73.24	72.63	72.01	71.01	69.72	68.48	67.53	66.68	65.95	66.1	118.54
OASPL	94	94.77	95.23	95.66	95.81	95.3	94.19	93.06	92.15	91.52	91.14	91.13	91.95	136.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	130
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nestbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	862.81
m01	0.30192
pamb	14.1615
tamb	499.057
rhumid	80.42
winds1	0
nprc	1.534
nprb	1.611
ptc	21.7237
ptb	22.8142
wactc	2.096
wactb	17.034
ttc	1327.85
ttb	505.463
ptmix	22.6947
ttmix	595.568
mixprd	0.721116
gravixp	16505.6
badchan	(26)
bkgnd	116
escdate	18 Nov 96
esctime	21:10:49
DADSdate	97.08.19
DADStime	21:10:49
btchdate	18.Nov.96
btchtime	21:10:49

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Tue Aug 19 17:20:03 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	41.05	47.02	48.5	51.32	50.4	49.96	49.86	50.23	52.17	51.56	51.25	50.97	52.64	51.12	49.97	49.28	48.8	51.13	50.63	49.8	48.67	48.19	52.13	115.59
80	0	48.46	49.05	48.27	50.3	50.5	51.74	51.74	50.4	49.51	51.24	50.56	49.47	51.57	51.81	51.89	51.19	52.67	51.12	50.64	50.17	49.71	49.15	115.86
100	48.74	49.43	49.82	51.24	50.86	52.6	51.96	50.86	50.39	51.83	51.51	53.04	52.5	52.02	53.64	53.28	52.77	53.62	52.37	51.92	51.33	50.84	49.92	117.13
130	48.99	50.8	52.02	52.01	52.65	53.82	53.34	53.25	52.48	53.6	53.17	53.6	53.16	53.44	52.77	53.7	52.87	52.11	53.19	52.57	51.43	50.09	48.55	117.72
160	49.93	52.21	52.61	53.43	54.34	55.05	56.25	53.76	53.84	53.02	53.35	54.35	54.4	56.1	55.95	56.73	56.08	55.98	52.79	51.99	50.62	48.93	48.04	119.07
200	52.11	54.33	56.02	56.9	57.34	57.06	56.04	56.06	57.14	58.05	56.68	56.79	58.99	58.96	58.68	57.72	56.86	55.23	54.61	53.27	52.35	50.12	47.38	121.39
250	51.86	53.59	54.42	54.88	55.71	56.11	56.5	56	55.71	55.3	55.25	55.66	58.27	56.85	57.03	56.81	56	54.42	53.93	52.13	50.03	47.19	43.8	119.78
320	51.21	54.21	55.85	56.77	56.7	56.9	57.06	56.77	57.14	57.41	57.67	57.73	57.92	57.87	57.72	57.28	56.41	55.16	52.51	50.47	48.38	45.58	42.44	120.82
400	51.24	54.58	55.92	55.9	56.76	57.35	57.62	57.43	57.64	57.97	58.39	58.57	58.69	58.54	58.25	57.22	55.78	54.17	53.15	50.8	47.86	44.45	40.57	120.91
500	51.22	54.02	55.57	56.54	56.78	57.38	57.74	57.75	58.08	58.25	58.19	58.13	58.07	58.08	57.44	56.87	55.08	53.41	52.34	49.9	46.97	43.35	39.11	120.64
630	53.85	55.79	57.05	57.42	57.78	58.14	58.36	58.17	58.27	58.47	58.58	58.97	59.08	59.07	58.65	57.27	55.05	52.79	51.2	48.58	45.53	42.06	37.56	121.72
800	52.09	55.99	57.26	57.7	57.97	58.36	58.46	58.34	58.78	59.09	59.44	59.55	59.86	59.99	58.57	58.41	56.06	53.54	50.79	47.9	44.48	40.68	36.24	121.78
1000	51.55	55.5	56.8	57.23	57.88	58.32	58.76	58.96	59.59	59.8	60.08	60.78	61.1	61.16	60.74	58.31	56.84	53.78	50.83	47.79	44.29	40.15	34.88	122.4
1300	51.78	55.21	56.3	56.76	57.2	57.78	58.16	59.07	59.29	59.58	59.97	60.57	60.98	61.16	60.81	58.44	56.66	53.36	50.49	47.11	43.46	39.08	33.3	122.22
1600	49.96	53.52	55.1	55.65	56.03	56.52	56.94	58.74	59.15	59.5	60.15	60.62	60.99	61.03	60.53	58.74	55.82	52.54	49.95	46.57	42.79	37.88	31.41	121.81
2000	47.6	50.97	52.82	53.41	53.93	54.39	54.91	57.18	57.39	57.94	58.78	59.52	59.57	59.44	58.56	56.81	53.83	50.46	48.99	45.24	40.87	35.55	28.6	120.08
2500	43.66	47.21	48.86	49.91	50.35	50.74	51.37	55.24	55.36	55.59	56.49	57.27	56.7	55.91	54.71	52.72	49.85	46.39	46.72	42.86	37.92	32.04	24.09	117.11
3200	38.13	41.94	43.96	44.86	45.27	45.75	46.46	51.54	51.68	51.96	52.52	52.9	51.95	50.66	49.09	46.91	43.68	39.95	42.47	38.13	32.89	26.04	10.43	112.53
4000	30.69	34.57	37.07	37.49	37.91	39.15	40.4	46.51	46.35	46.57	48.69	48.64	45.49	43.81	41.93	38.28	35.77	31.6	35.81	31.12	24.9	11.11	0	108.34
5000	17.6	23.42	26.52	27.88	28.63	30.24	32.12	40.51	40.26	40.33	40.01	39.63	38.08	35.84	33.26	30.28	25.78	18.83	26.72	19.43	0	0	0	99.22
6300	0	0	0	0	0	-2.64	12.01	31.8	31.25	31.6	31.18	30.08	27.42	24	19.78	7.48	0	0	0	0	0	0	0	89.39
8000	0	0	0	0	0	0	0	7.85	0.08	-2.63	0	0	0	0	0	0	0	0	0	0	0	0	0	65.96
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	66.08	65.66	66.95	67.55	67.97	68.43	68.67	69.03	69.31	69.59	69.96	70.39	70.52	70.57	70.18	69.12	67.38	65.73	64.22	62.46	60.69	58.78	57.87	132.6
PNL	74.59	75.98	77.46	78.08	78.51	79.02	79.41	79.75	79.95	80.32	80.88	81.42	81.38	81.22	80.48	78.97	76.53	73.87	70.97	67.62	64.15	60.1	55.85	79.08

NASA Lewis Allison AST Jet Noise Test 1996

rdg	131
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nalrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	ACOU
nozbid	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	908.56
m01	0.30144
pamb	14.1602
tamb	499.059
rhumid	80.32
winds1	0
nprc	1.736
nprb	1.817
ptc	24.5821
ptb	25.7291
wactc	2.435
wactb	19.204
ttc	1415.23
ttb	506.706
ptmix	25.6
ttmix	608.941
mixpnd	0.751052
gravtxp	19662.5
badchan	(17,26)
bkgnd	116
escdate	18.Nov.96
esctime	21:16:28
DADSdate	97.06.19
DADStime	21:16:28
btchdate	18.Nov.96
btchtime	21:16:28

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Tue Aug 19 17:24:08 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	73.04	73.77	74.22	74.45	74.58	74.58	74.61	74.61	74.69	74.8	74.95	75.22
100	73.43	74.75	75.08	75.14	75.34	75.63	75.94	76.25	76.51	76.72	76.89	77.08
130	73.82	74.84	75.42	75.63	75.57	75.34	75.04	74.81	74.71	74.81	75.15	75.7
160	75.95	76.2	76.53	76.87	77.21	77.55	77.87	78.18	78.46	78.72	78.96	79.22
200	75.99	77.47	78.34	78.78	78.95	78.88	78.94	78.88	78.81	78.77	78.8	79
250	77.32	77.99	78.36	78.57	78.76	78.95	79.16	79.41	79.7	80.03	80.4	80.82
320	78.44	79.64	79.78	79.73	79.94	80.23	80.44	80.63	80.84	81.01	80.96	80.94
400	79.15	80.63	80.9	80.8	80.92	81.21	81.57	81.82	82.17	82.28	82.33	82.56
500	80.09	80.87	81.13	81.32	81.62	82	82.4	82.73	82.9	82.97	83.12	83.66
630	80.63	82.4	82.94	82.94	82.78	82.69	82.78	82.85	83.01	83.25	83.34	83.67
800	81.45	83.45	84.19	83.99	83.82	84.15	84.48	84.68	84.83	84.87	85.04	85.28
1000	82.45	84.51	84.81	84.65	84.71	84.85	85.11	85.42	85.87	85.88	86.08	86.35
1300	83.94	85.58	85.91	85.93	85.98	86.1	86.45	86.67	87.27	87.61	87.97	86.73
1600	85.26	87.11	87.56	87.53	87.53	87.67	87.91	88.29	88.65	88.94	89.53	90.57
2000	86.29	88.25	88.62	88.53	88.58	88.8	89.34	89.9	90.24	90.68	91.56	92.71
2500	86.33	88.75	89.19	89.21	89.38	89.54	90.07	90.72	91.36	92.27	93.61	94.98
3200	87	89.47	89.95	89.84	89.88	90.29	91.05	91.87	92.56	93.37	94.56	95.98
4000	87.29	89.66	90.09	89.86	89.82	90.19	90.88	91.68	92.56	93.57	94.94	96.07
5000	87.12	89.68	90.1	89.27	88.91	89.38	90.19	91.03	91.79	92.58	93.88	95.07
6300	87.13	89.48	90.09	89.3	88.71	88.97	89.58	90.26	90.97	91.61	92.45	93.55
8000	86.69	89.4	90.33	89.77	89.06	89.19	88.56	89.91	90.35	90.78	91.67	92.53
10000	86.47	87.77	88.45	88.05	88.15	88.12	87.61	87.69	87.94	87.91	88.66	88.62
OASPL	97.25	99.36	99.88	99.59	99.48	99.71	100.17	100.74	101.29	101.9	102.89	103.95

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.56	76.05	76.69	77.47	78.43	79.59	80.97	82.6	84.5	86.85	90.09	121.07
100	77.34	77.74	78.29	79.01	79.93	81.06	82.43	84.08	85.91	88.08	90.77	122.41
130	76.42	77.27	78.21	79.22	80.29	81.4	82.57	83.86	85.29	87.02	89.37	121.88
160	79.5	79.83	80.25	80.81	81.53	82.44	83.52	84.72	85.99	87.38	88.95	123.39
200	79.4	79.86	80.37	80.96	81.65	82.43	83.27	84.07	84.82	85.58	86.28	123.31
250	81.28	81.77	82.3	82.86	83.37	83.83	84.34	84.99	85.7	86.31	86.72	124.38
320	81.76	82.58	83.08	83.4	83.81	84.4	84.87	84.74	84.34	83.95	83.79	124.81
400	82.91	83.32	83.65	83.8	83.83	83.77	83.67	83.57	83.32	82.89	82.54	125.32
500	84.4	85.03	85.27	85.07	84.67	84.2	83.73	83.29	82.7	81.98	81.62	126.11
630	84.32	85.15	85.61	85.4	84.84	84.19	83.67	83.27	82.65	81.67	80.94	126.49
800	85.68	86.04	86.18	85.98	85.54	84.94	84.21	83.38	82.51	81.74	81.51	127.62
1000	86.87	87.5	87.55	86.81	85.69	85.01	84.19	83.38	82.56	81.85	81.52	128.47
1300	89.05	89.31	89.19	88.37	87.18	85.9	84.67	83.58	82.7	82.18	82.28	130
1600	91.17	91.8	91.75	90.51	88.88	87.38	86.21	85.25	84.58	84.29	84.87	131.81
2000	93.45	93.93	93.62	92.27	90.46	88.66	87.08	85.82	84.97	84.87	85.3	133.48
2500	95.48	95.3	94.47	93.02	91.29	89.56	87.98	86.51	85.32	84.59	84.67	134.75
3200	96.39	96.26	95.52	94.11	92.33	90.46	88.71	87.23	86.05	85.33	85.41	135.71
4000	96	95.45	94.51	93.13	91.55	89.92	88.39	87.05	85.95	85.25	85.34	135.45
5000	95.02	94.23	93.12	91.74	90.2	88.58	87.12	85.95	84.91	84.12	84.31	134.49
6300	93.65	93.03	91.95	90.45	88.79	87.17	85.74	84.58	83.62	82.99	83.29	133.49
8000	92.4	91.88	90.49	88.91	87.24	85.71	84.42	83.38	82.48	81.87	82.17	132.78
10000	88.65	88.37	87.5	86.1	84.44	82.71	81.17	79.98	79.01	78.32	78.49	130.25
OASPL	104.21	104.03	103.39	102.2	100.83	99.58	98.63	98.04	97.79	98.05	99.16	144.3

NASA Lewis Allison AST Jet Noise Test 1996

rdg	131
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nabbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	ACOU
nozbld	-50%
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	908.66
m01	0.30144
pamb	14.1802
tamb	499.059
rhumid	80.32
windel	0
nprc	1.736
nprb	1.617
ptc	24.5821
ptb	25.7291
wactc	2.435
wactb	19.204
ttc	1415.23
ttb	506.706
ptmix	25.6
ttmix	606.941
mixpnd	0.751052
grawbp	19662.5
badchan	[17,26]
bkgnd	118
secdate	18 Nov 96
sectime	21:16:28
DADSdate	97.08.19
DADStime	21:16:28
btchdate	18.Nov.96
btchtime	21:16:28

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Tue Aug 19 17.24.17 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1665.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1665.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	51.84	52.68	53.33	55.81	54.88	54.47	54.35	54.57	56.58	56.86	55.47	55.29	57.51	56.51	55.78	55.43	55.32	57.65	58.24	56.18	55.61	55.29	59.32	121.33
80	49.83	53.99	54.35	53.28	55.16	54.78	56.45	58.18	54.97	54.31	55.88	56.07	53.97	55.95	56.11	56.3	55.82	57.8	57.93	57.78	57.65	57.56	57.38	121.68
100	53.48	53.56	53.79	55.04	54.73	56.6	56.3	54.69	54.33	55.88	55.55	57.65	57.33	57.07	58.45	58.25	57.91	58.7	57.74	57.65	57.48	57.24	57.02	122.26
130	53.98	55.04	57.06	57.38	58.15	58.78	58.11	58	57.56	58.37	57.92	58.3	58.16	58.52	58.07	58.92	58.4	57.77	58.59	58.45	57.84	57.02	55.84	123.15
160	53.67	56.78	58.26	57.16	57.82	58.53	59.22	58.6	58.86	58.3	58.59	59.02	58.58	59.29	58.96	59.88	59.46	59.93	58.25	57.6	56.55	55.17	54.64	123.31
200	55.84	56.78	58.08	58.86	59.53	59.94	59.85	58.99	59.89	60.89	61.33	60.92	61.74	61.99	61.84	61.11	60.85	60.11	59.23	58.34	57.97	56.24	53.45	124.82
250	55.82	57.74	57.95	57.87	59.14	59.74	60.34	60.01	59.84	59.65	59.52	59.8	60.01	60.34	60.5	60.56	60.03	59.02	59.5	57.82	55.73	53.1	50.04	123.95
320	55.96	58.46	59.12	59.54	59.7	60.45	60.9	61	61.51	61.44	61.13	60.96	61.59	61.74	61.6	61.43	60.36	59.02	57.81	58.23	54.4	51.57	48.2	124.59
400	56.99	57.31	58.72	58.49	60.18	60.71	61.12	61.46	61.79	61.84	61.98	61.97	62.19	62.38	62.14	61.03	59.86	58.11	57.15	55.38	52.9	49.7	45.8	124.64
500	56.48	59.03	60.06	60.6	60.87	61.57	62.09	61.18	61.32	61.63	61.75	62.07	62.3	62.54	62.2	61.38	59.96	58.41	56.5	54.63	52.09	48.47	44.09	124.86
630	56.48	59.49	60.8	61.06	61.4	61.95	62.51	62.58	62.77	62.81	62.88	63	63	63.2	62.79	61.42	59.77	57.67	56.38	53.88	50.85	47.35	42.89	125.42
800	57.24	60.17	61.01	61.48	61.94	62.29	63.08	62.86	63.26	63.45	63.58	63.78	63.99	63.97	63.39	62.18	60.25	57.88	55.58	52.97	49.81	45.91	41.1	125.94
1000	57.89	60.23	61.62	62.2	62.94	63.6	64.13	63.81	64.27	64.68	65.11	65.8	66.04	66.24	65.72	63.84	61.25	58.41	55.15	52.2	48.92	45.02	39.99	127.33
1300	58.43	61.2	62.36	62.92	63.35	63.99	64.8	64.67	65.23	65.57	66.17	67.2	67.38	67.55	66.84	64.69	62.02	59.03	55.75	52.83	49.56	45.62	40.81	128.3
1600	57.86	60.83	62.04	62.64	63.24	63.84	64.57	65.58	66	66.63	67.53	68.56	68.96	68.54	67.12	64.82	61.94	58.78	55.72	52.28	48.49	44.1	38.4	128.95
2000	56.19	59.76	61.07	61.7	62.44	63.1	64.12	66.42	66.12	66.97	68.2	69.32	69.49	68.75	67.13	64.66	61.59	58.15	55.33	51.56	47.15	41.95	35.21	129.04
2500	53.98	57.59	59	58.71	60.27	61.06	61.93	65.1	65.82	66.57	67.56	68.43	68.07	66.91	65.08	62.39	59.14	55.54	54.37	50.22	45.47	39.71	31.93	127.72
3200	49.74	53.54	55.12	55.47	55.86	56.75	57.79	62.72	63.59	64.32	65.32	65.9	64.99	63.27	60.99	58.15	54.82	50.92	51.61	47.14	41.91	35.27	28.04	124.69
4000	42.9	47.16	49.07	49.26	49.58	50.54	51.65	58.87	59.26	59.63	60.26	60.73	59.78	58.08	55.74	52.42	48.5	44.1	46.5	41.84	36.53	27.48	4.26	119.61
5000	32.25	37.23	38.78	40.68	41.23	42.33	43.44	52.5	53.15	53.53	53.89	54.13	53.11	50.89	47.89	44.14	38.78	34.7	38.14	33.31	25.74	5.44	0	112.87
6300	9.85	20.91	25.25	26.79	27.95	29.07	29.68	44.06	44.43	44.41	44.51	44.17	42.53	38.91	36.4	31.82	26.04	17.11	28.73	20.49	0	0	0	103.07
8000	0	0	0	0	0	0	0	29.97	29.88	28.65	26.08	25.85	23.3	19.64	9.54	0	0	0	0	0	0	0	0	86.7
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	68.21	70.71	71.83	72.38	72.92	73.53	74.14	74.82	75.3	75.75	76.37	77.08	77.12	76.77	75.83	74.25	72.38	70.82	68.55	68.13	66.78	65.34	64.91	138.36
PNL	79.85	82.72	83.98	84.55	85.18	85.65	86.65	87.51	88.1	88.66	89.4	90.1	90.08	89.44	88.1	86.03	83.45	80.7	77.82	74.6	70.96	67.14	63.34	86.83

50%L, 20UH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg 318
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 578.86
m01 0.00239
pamb 14.5039
tamb 495.763
rhumid 45.85
winds1 0
nprc 1.166
nprb 1.211
ptc 16.9115
ptb 17.5642
wactc 1.879
wactb 9.503
ttc 1091.09
ttb 493.483
ptmix 17.4565
ttmix 592.139
mixpnd 0.485196
grsvisp 6588.58
badchan (28)
bkgnd 300
escdate 26.Nov.96
esctime 20:53:36
DADSdate 26.Nov.96
DADStime 20:53:36
blchdate 26.Nov.96
blchtime 20:53:36
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:26:08 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	62.3	63.13	63.94	64.73	65.51	66.27	67.03	67.77	68.5	69.22	69.94	70.86
100	63.95	64.84	65.63	66.35	67.01	67.63	68.24	68.85	69.48	70.15	70.65	71.8
130	63.82	64.53	65.08	65.5	65.85	66.16	66.49	66.89	67.39	68.06	68.93	70.03
160	65.37	66.05	66.64	67.15	67.63	68.08	68.55	69.04	69.59	70.19	70.88	71.65
200	65.83	66.9	67.77	68.49	69.11	69.66	70.17	70.87	71.18	71.72	72.33	73.02
250	67.11	68.15	69.09	69.95	70.74	71.49	72.2	72.91	73.61	74.34	75.1	75.9
320	66.57	67.56	68.52	69.45	70.32	71.1	71.74	72.23	72.63	73.13	73.92	74.97
400	66.17	67.38	68.47	69.48	70.43	71.33	72.13	72.7	73.2	73.87	74.5	75.02
500	66.19	67.54	68.69	69.67	70.49	71.18	71.79	72.32	72.83	73.48	74.35	75.39
630	65.72	67.29	68.71	70	70.91	71.81	72.18	72.69	73.21	73.75	74.53	75.49
800	65.51	67.23	68.66	69.82	70.7	71.33	71.92	72.64	73.51	74.23	74.84	75.54
1000	65.12	66.98	68.39	69.4	70.13	70.72	71.32	71.98	72.89	73.45	74.18	74.89
1300	64.19	66.24	67.9	69.05	69.74	70.18	70.74	71.48	72.2	72.75	73.43	74.2
1600	63.43	65.48	67.03	68.14	68.9	69.5	70.12	70.78	71.36	71.82	72.49	73.41
2000	62.45	64.28	65.74	66.84	67.58	68.12	68.74	69.42	70.02	70.56	71.28	72.31
2500	61.97	63.92	65.16	65.92	66.41	66.88	67.52	68.12	68.77	69.38	70.16	70.89
3200	60.95	63.09	64.58	65.47	65.81	66.11	67.01	67.83	68.38	68.78	69.39	70.13
4000	60.3	62.57	63.98	64.78	65.16	65.7	66.6	67.24	67.97	68.33	68.94	69.51
5000	58.99	61.76	63.19	63.72	63.92	64.64	65.93	66.92	67.63	68.21	68.87	69.49
6300	58.19	61.28	62.79	63.47	63.92	64.83	66.12	67.24	68.04	68.54	69.12	69.63
8000	57.6	61.8	63.38	64.08	64.53	65.48	66.65	68.16	69.01	69.39	70.22	70.78
10000	55.55	59.23	61.59	63.16	64.11	64.86	65.21	66.88	67.85	67.82	69.2	69.13
OASPL	77.42	78.91	80.11	81.05	81.77	82.41	83.08	83.75	84.38	84.97	85.7	86.48

distance: (	150	150	150	150	150	150	150	150	150	150	150		
yaw angle	115	120	125	130	135	140	145	150	155	160	165		
roll angle (	0	0	0	0	0	0	0	0	0	0	0		
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL	
80	71.37	72.08	72.8	73.51	74.24	74.97	75.7	76.45	77.21	77.99	0	114.39	
100	72.37	73.14	73.89	74.58	75.18	75.64	75.95	76.05	75.95	75.63	0	114.85	
130	71.28	72.51	73.66	74.61	75.27	75.66	75.96	76.29	76.26	74.87	0	114.34	
160	72.48	73.36	74.27	75.17	76.06	76.86	77.4	77.5	76.95	75.64	0	115.52	
200	73.75	74.49	75.19	75.8	76.27	76.49	76.23	75.33	73.87	71.96	0	115.74	
250	76.67	77.38	77.89	78.22	78.28	78.01	77.35	76.23	74.59	72.34	0	117.88	
320	75.94	76.81	77.5	77.84	77.58	76.67	75.39	73.84	72.19	70.7	0	117.01	
400	75.73	76.49	76.77	76.46	75.94	75.24	74.13	72.66	70.96	69.38	0	116.58	
500	76.35	77.16	77.69	77.78	77.06	75.71	74.18	72.24	70.11	68.52	0	116.96	
630	76.37	77.3	77.64	77.16	75.7	74.23	73.23	71.83	70.18	68.71	0	116.81	
800	76.37	77.09	77.47	76.48	74.75	73.26	72.12	70.43	68.34	66.82	0	116.58	
1000	75.71	76.51	76.98	75.81	73.19	72.4	71.34	68.62	67.42	66.19	0	115.89	
1300	75.03	75.92	76.47	75.44	72.49	72.13	71.29	67.81	66.28	65.01	0	115.33	
1600	74.27	75.14	76.14	75.24	71.87	71.63	70.77	66.81	65.44	64.12	0	114.66	
2000	73.2	74.05	75.06	73.87	70.57	70.86	69.81	65.61	64.37	62.84	0	113.48	
2500	71.47	72.4	73.12	72.01	69.22	69.82	68.72	64.06	63.18	61.36	0	112.04	
3200	70.62	71.15	71.61	70.8	67.82	68.08	67.3	62.51	61.19	59.51	0	111.07	
4000	69.7	69.99	70.32	68.93	66.44	66.27	65.24	60.84	58.72	57.01	0	110.17	
5000	69.63	69.62	69.41	67.83	65.38	65.08	64.04	59.54	57.2	55.57	0	109.64	
6300	70.28	70.4	69.68	67.39	64.65	64.47	63.41	58.59	56	54.47	0	109.87	
8000	70.9	70.85	70.06	67.82	65.56	64.61	63.02	58.77	55.83	54.17	0	110.56	
10000	69.52	70	69.53	67.03	64.22	62.77	61.12	57.32	53.93	51.84	0	109.35	
OASPL	87.26	88.01	88.54	88.24	87.44	87.14	86.67	85.74	84.98	84.07	0	128.2	

NASA Lewis Allison AST Jet Noise Test 1996

rdg	318
run	1
test_prog	Allison96
test_num	3
test_facil	LaRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mxbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	578.86
m01	0.00239
pamb	14.5039
tamb	495.763
rhumid	45.85
winds1	0
nprc	1.166
nprb	1.211
ptc	16.9115
ptb	17.5642
wactc	1.879
wactb	9.503
ttc	1091.09
ttb	493.483
ptmix	17.4565
ttmix	592.139
mixpnd	0.485196
gravixp	6586.58
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	20:53:36
DADSdate	26.Nov.96
DADStime	20:53:36
btchdate	26.Nov.96
btchtime	20:53:36

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:26:14 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	40.51	41.83	43.04	44.15	45.17	46.1	46.95	47.73	48.42	49.05	49.6	50.07	50.47	50.78	51.01	51.14	51.16	51.06	50.6	50.34	49.63	48.54	0	114.33
100	42.13	43.51	44.7	45.73	46.63	47.42	48.13	48.78	49.38	49.94	50.48	50.98	51.44	51.81	52.07	52.17	52.06	51.69	50.99	49.88	48.29	46.1	0	114.74
130	41.94	43.15	44.1	44.84	45.43	45.91	46.35	46.77	47.24	47.81	48.51	49.37	50.28	51.13	51.79	52.15	52.09	51.64	50.93	50.03	48.49	45.2	0	114.16
160	43.42	44.59	45.58	46.42	47.14	47.77	48.34	48.87	49.38	49.88	50.39	50.92	51.43	51.9	52.31	52.62	52.79	52.73	52.26	51.11	49.03	45.76	0	115.25
200	43.75	45.32	46.61	47.66	48.52	49.24	49.86	50.39	50.87	51.31	51.75	52.18	52.58	52.91	53.11	53.11	52.85	52.2	50.9	48.72	45.7	41.79	0	115.36
250	44.84	46.4	47.75	48.94	49.99	50.91	51.73	52.47	53.14	53.76	54.35	54.89	55.33	55.6	55.62	55.32	54.64	53.48	51.74	49.31	46.04	41.7	0	117.32
320	44.07	45.59	46.99	48.27	49.4	50.35	51.11	51.63	51.99	52.38	52.98	53.78	54.42	54.85	55.02	54.71	53.67	51.84	49.44	46.52	43.16	39.47	0	116.23
400	43.32	45.07	46.6	47.96	49.18	50.27	51.18	51.78	52.25	52.81	53.25	53.5	53.85	54.17	53.91	52.92	51.59	49.93	47.65	44.73	41.22	37.27	0	115.45
500	42.9	44.83	46.44	47.78	48.88	49.77	50.49	51.08	51.54	52.06	52.74	53.5	54.09	54.45	54.4	53.79	52.23	49.86	47.09	43.59	39.46	35.26	0	115.41
630	41.9	44.06	46	47.68	48.86	49.8	50.5	51.04	51.52	51.94	52.51	53.18	53.67	54.1	53.84	52.81	50.25	47.69	45.35	42.28	38.47	34.1	0	114.8
800	41.15	43.51	45.46	47.03	48.21	49.06	49.77	50.53	51.38	51.98	52.37	52.76	53.18	53.36	53.11	51.33	48.66	46.02	43.46	39.97	35.57	30.91	0	114.09
1000	40.2	42.73	44.69	46.13	47.18	47.98	48.72	49.42	50.07	50.71	51.21	51.61	52.02	52.28	52.07	50.07	48.45	44.44	41.87	37.23	33.54	28.84	0	112.89
1300	38.65	41.42	43.66	45.26	46.29	46.96	47.66	48.44	49.12	49.53	49.96	50.42	50.8	51.11	50.94	49.04	45.05	43.37	40.91	35.39	31.19	26.26	0	111.76
1600	37.22	40.01	42.18	43.75	44.87	45.72	46.49	47.19	47.72	48.04	48.46	49.02	49.41	49.67	49.93	48.11	43.6	41.96	39.39	33.01	28.96	23.63	0	110.43
2000	35.38	38.01	40.12	41.72	42.83	43.63	44.4	45.13	45.68	46.06	46.52	47.18	47.58	47.78	48.01	45.83	41.31	40.11	37.15	30.56	26.15	20.14	0	108.44
2500	33.66	36.5	38.44	39.74	40.63	41.38	42.18	42.84	43.43	43.88	44.38	44.71	44.75	44.98	44.85	42.66	38.54	37.48	34.31	26.97	22.53	10.72	0	105.89
3200	30.87	33.97	36.23	37.73	38.53	39.16	40.22	41.09	41.59	41.79	42.12	42.39	42.27	42.03	41.52	39.32	35.08	33.48	30.3	22.36	13.35	0	0	103.36
4000	27.48	30.85	33.15	34.63	35.57	36.48	37.57	38.27	38.81	39.06	39.31	39.37	38.86	38.28	37.47	34.67	30.43	28.14	24.22	3.8	0	0	0	100.09
5000	20.9	26.08	28.58	29.87	30.8	31.93	33.45	34.51	35.17	35.53	35.74	35.88	34.95	33.82	32.25	29.05	24.25	20.2	9.04	0	0	0	0	95.89
6300	0	14.18	20.8	23.2	24.89	26.5	28.12	29.32	29.99	30.15	30.2	30.13	29.45	28.25	25.64	19.54	-2.32	0	0	0	0	0	0	90.11
8000	0	0	0	0	0	10.23	17.13	20.11	21.21	21.23	21.36	20.58	18.13	12.72	0	0	0	0	0	0	0	0	0	79.55
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	53.89	55.67	57.2	58.49	59.52	60.37	61.11	61.75	62.3	62.82	63.34	63.88	64.34	64.69	64.72	64.07	62.96	61.84	60.45	58.65	56.49	53.72	0	126.36
PNL	59.04	61.72	63.72	65.15	66.25	67.14	68	68.75	69.33	69.75	70.23	70.75	71.08	71.22	71.17	69.63	67.27	65.49	63.23	59.44	55.59	50.22	0	69.26

NASA Lewis Allison AST Jet Noise Test 1996

rdg	319
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	822.35
m01	0.00487
pamb	14.5034
tamb	494.938
rhumid	46.81
winds1	0
nprc	1.393
nprb	1.44
ptc	20.2032
ptb	20.8849
wactc	3.018
wactb	13.383
ttc	1147.91
ttb	491.19
ptmix	20.7595
ttmix	612.035
mixpnd	0.677992
grsvkp	13487.4
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	21:03:48
DADSdate	26.Nov.96
DADStime	21:03:48
btchdate	26.Nov.96
btchtime	21:03:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:28:07 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (|	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	71.56	72.45	73.28	74.05	74.79	75.49	76.17	76.85	77.52	78.2	78.89	79.61	80.41	81.36	82.51	83.93	85.65	87.6	89.5	91.04	91.91	91.82	0	126.49
100	74.03	75.37	76.26	76.81	77.09	77.23	77.3	77.42	77.67	78.16	78.98	80.18	81.67	83.35	85.1	86.82	88.39	89.7	90.65	91.12	91.01	90.21	0	127.35
130	73.76	74.42	74.89	75.24	75.51	75.75	76.02	76.37	76.82	77.42	78.21	79.23	80.47	81.86	83.44	85.1	86.8	88.44	89.78	90.55	90.46	89.26	0	126.28
160	75.19	76.25	76.99	77.49	77.82	78.05	78.28	78.57	78.98	79.57	80.4	81.43	82.45	83.3	84.44	86.17	87.85	88.99	89.64	89.85	89.6	88.87	0	126.8
200	76.7	77.58	78.21	78.64	78.92	79.12	79.3	79.51	79.83	80.3	81	81.94	83.05	84.23	85.39	86.41	87.19	87.86	87.68	87.11	85.87	83.94	0	126.05
250	75.87	76.76	77.71	78.62	79.44	80.08	80.49	80.61	80.78	81.21	81.38	82.48	84.12	85.62	86.56	87.24	87.98	88.71	88.88	87.99	86.19	83.74	0	126.9
320	77.33	77.87	78.26	78.58	78.95	79.39	79.85	80.25	80.55	80.89	81.42	82.38	83.77	84.47	85.28	85.98	86.42	86.64	86.33	84.89	83	81.13	0	125.61
400	76.63	77.48	78.23	78.9	79.51	80.06	80.64	81.19	81.83	82.63	83.57	84.46	85.02	85.45	85.94	86.48	86.51	86.19	85.44	83.58	81.38	79.65	0	126.13
500	76.57	77.41	78.21	79.09	79.77	80.15	80.68	81.32	82.02	82.78	83.59	84.45	85.23	85.79	86.09	86.22	86.2	85.85	84.82	83.26	81.21	78.69	0	126.1
630	76.2	77.62	78.83	79.74	80.25	80.6	81.13	81.61	82.17	82.8	83.35	84.42	85.19	85.69	85.78	85.69	85.52	85	84.05	82.03	79.7	77.86	0	125.86
800	76.18	77.79	79.01	79.93	80.65	81.24	81.81	82.35	82.98	83.54	83.76	84.5	85.57	86.41	86.42	85.76	85.45	85.18	84.01	82.03	80.1	77.64	0	126.28
1000	76.69	78.42	79.72	80.65	81.21	81.51	81.79	82.23	82.84	83.43	84.13	84.94	85.86	86.68	86.47	85.64	85.23	85.03	83.91	81.81	79.47	77.27	0	126.39
1300	76.51	78.47	79.98	81.03	81.71	82.18	82.61	83.1	83.8	84.04	84.69	85.75	87.18	88.45	87.84	85.65	85.22	85.65	83.97	81.29	79.43	77.39	0	127.18
1600	76.06	78.68	80.41	81.47	82.12	82.58	83.04	83.59	84.19	84.78	85.46	86.53	88.22	89.95	88.96	85.56	85.1	85.88	84.56	80.85	79.34	77.2	0	127.89
2000	76.03	78.65	80.21	81.1	81.69	82.26	82.96	83.72	84.33	84.82	85.48	86.63	88.52	90.81	89.65	85.23	85.12	85.91	84.24	80.37	79.47	77.1	0	128.11
2500	75.13	77.67	79.23	80.19	80.84	81.51	82.32	83.03	83.49	84	84.84	86.34	88.54	90.68	89.61	85.63	84.63	85.82	84.43	79.6	78.81	77.11	0	127.82
3200	73.52	75.84	77.43	78.44	79.07	79.73	80.72	81.64	82.21	82.57	83.25	84.65	86.68	88.63	88.12	85.41	84	85.07	84.07	78.88	77.63	75.69	0	126.34
4000	72.22	74.69	76.15	76.92	77.39	78.06	79.14	79.94	80.57	81.01	81.56	82.56	83.94	85.03	84.74	83.39	82.41	83.05	81.9	76.66	75.88	73.74	0	124
5000	70.87	73.43	74.67	75.29	75.69	76.5	77.79	78.82	79.39	79.56	79.89	80.73	81.9	82.32	81.84	80.45	79.35	80.34	79.2	73.32	71.65	69.45	0	121.83
6300	69.47	72.05	73.18	73.86	74.05	75.09	76.68	78.11	78.77	78.57	78.4	78.91	79.84	80.22	79.4	78	76.71	77.94	76.7	69.52	67.31	65.32	0	120.09
8000	68.35	71.07	72.12	72.66	73.08	74.13	75.97	77.31	77.9	77.91	77.87	78.18	78.47	78.38	77.62	76.56	75.57	75.98	74.57	68.08	64.62	62.7	0	118.95
10000	65.31	67.47	68.76	70.31	71.55	72.33	73.56	74.79	75.41	75.27	75.21	75.08	75.42	75.5	75.08	73.57	72.16	72.03	70.31	64.88	60.98	58.71	0	116.18
OASPL	88.36	89.94	91.1	91.91	92.49	92.99	93.56	94.16	94.72	95.2	95.62	96.84	98.23	99.6	99.39	98.48	98.77	99.46	99.43	98.83	98.36	97.34	0	139.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg	319
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mxbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	822.35
m01	0.00487
pamb	14.5034
tamb	494.938
rhumid	46.81
winds1	0
nprc	1.393
nprb	1.44
ptc	20.2032
ptb	20.8849
wacic	3.018
wacib	13.383
ttc	1147.91
ttb	491.19
ptmix	20.7595
ttmix	612.035
mixpnd	0.677992
grsvlxp	13487.4
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	21:03:48
DADSdate	26.Nov.96
DADStime	21:03:48
bichdate	26.Nov.96
bichtime	21:03:48

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:28:13 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	49.78	51.16	52.38	53.47	54.44	55.31	56.1	56.81	57.45	58.02	58.54	59.02
100	52.2	54.04	55.33	56.19	56.72	57.02	57.2	57.34	57.57	57.95	58.6	59.56
130	51.88	53.04	53.91	54.58	55.09	55.51	55.88	56.25	56.67	57.17	57.79	58.57
160	53.23	54.79	55.94	56.75	57.33	57.74	58.07	58.39	58.78	59.25	59.9	60.89
200	54.62	56.01	57.05	57.8	58.34	58.71	58.99	59.24	59.52	59.89	60.41	61.1
250	53.61	55.04	56.38	57.62	58.7	59.51	60.03	60.19	60.31	60.64	60.63	61.49
320	54.82	55.89	56.71	57.38	58.01	58.63	59.2	59.64	59.9	60.14	60.49	61.19
400	53.77	55.17	56.37	57.39	58.27	59.03	59.7	60.29	60.88	61.57	62.32	62.94
500	53.28	54.7	55.97	57.21	58.17	58.75	59.39	60.07	60.72	61.38	61.98	62.56
630	52.4	54.42	56.11	57.41	58.22	58.77	59.42	59.95	60.47	60.79	61.33	62.11
800	51.82	54.07	55.8	57.14	58.16	58.97	59.67	60.25	60.85	61.27	61.28	61.71
1000	51.79	54.18	56.02	57.37	58.25	58.77	59.19	59.87	60.24	60.7	61.18	61.85
1300	51	53.66	55.73	57.22	58.24	58.94	59.51	60.04	60.49	60.8	61.22	61.94
1600	49.85	53.21	55.53	57.07	58.08	58.79	59.39	59.98	60.53	60.98	61.41	62.13
2000	48.97	52.39	54.59	55.97	56.93	57.77	58.62	59.41	59.97	60.3	60.69	61.47
2500	46.86	50.26	52.52	54.01	55.07	56.02	57	57.78	58.18	58.52	59.08	60.18
3200	43.46	46.75	49.12	50.74	51.82	52.79	53.97	54.96	55.48	55.63	55.99	56.94
4000	39.41	43	45.35	46.83	47.83	48.85	50.15	51.03	51.6	51.81	51.99	52.5
5000	33.89	37.77	40.12	41.62	42.65	43.87	45.37	46.48	46.98	46.91	46.84	47.1
6300	25.54	30.1	32.88	34.24	35.45	37	38.89	40.39	40.94	40.42	39.69	39.42
8000	-1.52	16.1	21.2	23.71	25.43	27.53	29.94	31.44	31.88	31.48	30.74	30.08
10000	0	0	0	0	0	0	2.55	7.19	11.67	4.89	0	0
OASPL	64.41	66.24	67.71	68.86	69.7	70.35	70.94	71.45	71.92	72.34	72.79	73.49
PNL	71.59	74.41	76.38	77.74	78.73	79.57	80.44	81.14	81.6	81.84	82.38	83.22

distance: (	1655.07	1732.05	1831.16	1858.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.51	60.08	60.73	61.55	62.58	63.7	64.8	64.93	64.32	62.38	0	126.41
100	60.74	62.02	63.26	64.41	65.28	65.75	65.69	64.95	63.36	60.67	0	127.22
130	59.49	60.5	61.57	62.63	63.62	64.42	64.75	64.29	62.59	59.58	0	126.08
160	61.39	61.84	62.49	63.62	64.58	64.67	64.49	63.47	61.68	59	0	126.51
200	61.89	62.66	63.31	63.72	63.78	63.38	62.38	60.51	57.7	53.78	0	125.84
250	62.79	63.87	64.3	64.36	64.38	64.19	63.28	61.09	57.67	53.11	0	126.29
320	62.24	62.5	62.78	62.84	62.52	61.61	60.37	57.57	53.97	49.9	0	124.78
400	63.15	63.14	63.09	62.98	62.19	60.9	58.98	55.69	51.64	47.54	0	124.98
500	62.97	63.07	62.8	62.23	61.38	59.99	57.71	54.6	50.6	45.48	0	124.52
630	62.49	62.5	61.98	61.15	60.08	58.47	58.19	52.52	48.04	43.15	0	123.83
800	62.38	62.71	62.07	60.63	59.38	57.95	55.35	51.58	47.32	41.74	0	123.72
1000	62.13	62.42	61.55	59.89	58.48	57.04	54.41	50.2	45.57	39.98	0	123.3
1300	62.91	63.62	62.3	59.25	57.78	56.89	53.57	48.83	44.31	38.55	0	123.54
1600	63.34	64.47	62.73	58.43	56.84	56.22	53.18	47.25	42.82	36.63	0	123.64
2000	62.87	64.52	62.56	57.14	55.81	55.13	51.58	45.29	41.18	34.35	0	123.08
2500	61.83	63.25	61.3	56.24	54.12	53.47	49.97	42.48	38.12	31.33	0	121.62
3200	58.38	59.58	58.09	54.14	51.22	50.42	47.04	38.56	33.34	25.58	0	118.43
4000	53.2	53.46	52.03	49.23	48.47	44.98	41.08	32.08	26.35	13.31	0	113.62
5000	47.42	48.71	44.88	41.84	38.63	36.94	32.29	21.12	2.37	0	0	107.9
6300	39.36	38.44	35.84	32.27	28.08	25.6	18.27	0	0	0	0	100.57
8000	28.94	26.9	23.41	17.43	0	0	0	0	0	0	0	90.81
10000	0	0	0	0	0	0	0	0	0	0	0	67.6
OASPL	74.34	75.06	74.68	74.02	73.94	73.79	73.11	71.88	70.05	67.24	0	137.08
PNL	84.4	85.36	84.11	81.09	79.7	79.01	78.65	73.2	69.72	65.45	0	82.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	320
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	936.76
m01	0.00587
pamb	14.5039
tamb	495.043
rhumid	47.62
winds1	0
nprc	1.536
nprb	1.615
ptc	22.278
ptb	23.4236
wactc	3.179
wactb	15.871
ttc	1284.56
ttb	489.729
ptmix	23.2326
ttmix	622.368
mixpnd	0.76588
gravixp	17845.3
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	21:08:59
DADSdate	26.Nov.96
DADStime	21:08:59
btchdate	26.Nov.96
btchtime	21:08:59

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:30:01 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.82	77.83	78.88	79.42	80.05	80.61	81.12	81.61	82.08	82.58	83.1	83.7	84.44	85.42	86.71	88.4	90.56	93.08	95.6	97.7	98.98	98.98	0	132.53
100	78.08	78.88	79.87	80.41	81.13	81.83	82.54	83.25	83.96	84.66	85.31	85.91	86.55	87.34	88.37	89.75	91.55	93.69	95.76	97.32	97.93	97.22	0	132.54
130	79.72	80.65	81.17	81.37	81.35	81.21	81.06	81	81.13	81.53	82.32	83.53	85.08	86.87	88.78	90.7	92.54	94.18	95.51	96.42	96.8	96.55	0	132.09
160	80.35	80.88	81.39	81.91	82.44	82.97	83.52	84.08	84.66	85.26	85.89	86.56	87.33	88.26	89.4	90.8	92.52	94.39	95.92	96.67	96.64	95.82	0	132.57
200	80.89	81.53	82.08	82.49	82.88	83.25	83.65	84.1	84.63	85.28	86.07	87.02	88.08	89.2	90.31	91.38	92.34	93.08	93.34	92.88	92	91.17	0	131.23
250	81.46	82.12	82.66	83.13	83.57	84	84.45	84.84	85.51	86.17	86.98	87.88	88.74	89.78	91.06	92.29	93.13	93.38	93.15	92.47	91.35	89.81	0	131.64
320	81.55	82.29	82.82	83.2	83.49	83.74	84	84.32	84.74	85.31	86.08	87.08	88.28	89.58	90.68	91.97	92.83	92.68	92.01	90.55	88.75	87.28	0	130.92
400	80.97	81.8	82.54	83.22	83.85	84.45	85.08	85.74	86.44	87.14	87.78	88.35	89.11	89.81	90.42	91.11	91.5	91.62	91.12	89.51	87.59	86.15	0	130.83
500	80.88	81.71	82.44	83.09	83.67	84.2	84.75	85.41	86.04	86.58	87.48	88.25	88.63	89.56	90.44	91.21	91.5	91.33	90.57	88.51	86.85	85.35	0	130.58
630	81.03	81.99	82.76	83.42	84.08	84.79	85.43	85.82	86.24	86.94	87.7	88.49	88.82	90.43	90.8	90.65	90.96	90.94	89.28	86.64	84.66	83.57	0	130.51
800	81.44	82.67	83.66	84.48	84.89	85.32	85.86	86.44	87.12	87.53	87.79	88.39	89.1	90.31	90.4	90.45	90.69	90.39	88.94	86.67	84.6	83.17	0	130.58
1000	81.55	83.2	84.41	85.12	85.49	86.86	86.55	87.2	87.73	88.15	88.95	89.55	89.82	91.11	90.93	90.13	89.7	90.05	88.88	85.99	84.26	82.61	0	130.98
1300	81.83	83.64	84.94	85.88	86.59	87.14	87.6	88.02	88.47	89.03	89.63	90.19	91.24	92.59	92.05	90.33	89.56	90.38	89.39	86.14	84.8	83.19	0	131.79
1600	81.81	83.89	85.33	86.35	87.12	87.8	88.46	89.02	89.44	89.89	90.62	91.29	92.27	94.2	92.85	90.33	90.03	91.44	89.75	85.76	85.21	83.83	0	132.66
2000	81.54	83.94	85.43	86.43	87.27	88.19	89.03	89.55	90.04	90.68	91.36	92.21	93.72	95.13	93.59	90.27	89.97	91.54	90.32	86.4	85.86	84.76	0	133.31
2500	80.87	83.72	85.33	86.21	86.81	87.58	88.6	89.24	89.81	90.49	91.22	92.29	93.98	95.38	93.85	90.36	89.62	91.5	90.56	86.42	86.12	85.22	0	133.31
3200	79.87	82.47	84	84.91	85.58	86.43	87.54	88.38	89.23	90.1	90.78	91.62	93.36	94.92	92.97	89.45	88.95	90.97	89.72	85.84	85.94	85.02	0	132.82
4000	78.22	80.83	82.03	82.89	83.57	84.41	85.45	86.34	87.24	88.21	89.23	89.82	90.45	92.39	91.64	88.75	88.05	89.89	88.65	84.31	84.24	83.19	0	130.76
5000	76.68	79.11	80.17	80.82	81.19	82.23	83.38	84.26	84.82	85.62	86.93	87.36	87.39	90.05	89.02	86.03	86	88.08	86.33	81.82	80.96	79.83	0	128.35
6300	74.98	77.43	78.52	79	79.57	80.66	82.03	82.99	83.64	84.28	84.98	85.02	85.31	87.37	86.8	83.78	82.92	85.23	83.3	78.93	75.92	74.94	0	126.18
8000	73.76	76.2	77.27	77.73	78.28	79.46	81.09	81.93	82.34	82.83	83.73	83.71	82.94	85.06	84.33	81.67	81.19	83.02	80.79	73.72	71.28	70.2	0	124.44
10000	70.55	72.79	74.07	74.98	75.88	77.06	78.11	78.6	78.85	79.35	79.99	79.28	78.69	81.39	80.98	78.42	77.48	79.2	76.63	68.89	66.1	65.44	0	120.89
OASPL	93.47	94.98	96.08	96.6	97.39	98.03	98.78	99.36	99.93	100.57	101.3	102.02	103.03	104.48	104.06	103.3	103.79	104.88	105.05	104.88	104.97	104.38	0	144.63

NASA Lewis Allison AST Jet Noise Test 1996

rdg	320
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	936.76
m01	0.00587
pamb	14.5039
tamb	495.043
rhumid	47.62
winds1	0
nprc	1.536
nprb	1.615
ptc	22.278
ptb	23.4238
wactc	3.179
wactb	15.871
ttc	1284.58
ttb	489.729
ptmix	23.2326
ttmix	622.368
mixpnd	0.76586
gravixp	17845.3
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	21:08:59
DADSdate	26.Nov.96
DADStime	21:08:59
blchdate	26.Nov.96
blchtime	21:08:59

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:30:08 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.81	1523.14	1505.73	1500	1505.73	1523.14	1552.81	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	55.04	56.53	57.78	58.83	59.7	60.43	61.05	61.56	62.01	62.4	62.78	63.11
100	56.26	57.55	58.73	59.79	60.75	61.62	62.43	63.18	63.86	64.45	64.93	65.29
130	57.85	59.27	60.19	60.7	60.93	60.96	60.92	60.89	60.98	61.28	61.8	62.87
160	58.4	59.42	60.34	61.18	61.95	62.66	63.3	63.9	64.44	64.94	65.4	65.82
200	58.82	59.96	60.89	61.66	62.29	62.84	63.34	63.82	64.32	64.87	65.48	66.18
250	59.21	60.37	61.34	62.14	62.83	63.43	63.96	64.51	65.04	65.6	66.24	66.86
320	59.04	60.31	61.27	61.99	62.55	62.98	63.35	63.7	64.09	64.55	65.14	65.89
400	58.11	59.48	60.67	61.7	62.6	63.4	64.13	64.84	65.5	66.08	66.51	66.84
500	57.6	59	60.19	61.21	62.08	62.79	63.46	64.16	64.74	65.16	65.88	66.37
630	57.23	58.79	60.04	61.1	62.05	62.97	63.73	64.16	64.54	65.13	65.68	66.16
800	57.09	58.95	60.45	61.67	62.4	63.05	63.71	64.34	64.97	65.26	65.31	65.59
1000	56.63	58.95	60.7	61.84	62.52	63.12	63.96	64.64	65.13	65.4	65.99	66.28
1300	56.31	58.81	60.68	62.07	63.11	63.9	64.5	64.96	65.37	65.79	66.16	66.37
1600	55.6	58.43	60.46	61.94	63.07	64	64.79	65.4	65.78	66.08	66.57	66.88
2000	54.45	57.64	59.78	61.28	62.5	63.69	64.66	65.24	65.67	66.15	66.56	67.04
2500	52.57	56.29	58.61	60.03	61.09	62.09	63.27	63.96	64.48	65	65.46	66.11
3200	49.81	53.4	55.71	57.21	58.33	59.49	60.79	61.69	62.49	63.17	63.5	63.89
4000	45.43	48.96	51.3	52.68	54.08	55.25	56.49	57.46	58.3	59.06	59.7	59.8
5000	39.69	43.49	45.66	46.96	48.17	49.64	51.04	51.99	52.47	53.01	53.94	53.72
6300	31.31	35.52	37.97	39.5	40.88	42.56	44.23	45.27	45.84	46.22	46.18	45.54
8000	17.3	24.31	27.56	29.54	31.16	33.07	35.14	36.2	36.46	36.85	36.77	35.82
10000	0	0	0	0	-2.81	14	17.8	19.23	19.56	19.2	18.88	15.09
OASPL	69.32	71.03	72.41	73.48	74.32	75.07	75.79	76.37	76.87	77.34	77.83	78.28
PNL	77.08	79.93	81.86	83.16	84.14	85.11	86.1	86.78	87.31	87.82	88.3	88.77

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	63.54	64.12	64.93	66.03	67.48	69.18	70.7	71.59	71.37	69.53	0	132.45
100	65.62	66.01	66.55	67.34	68.44	69.74	70.8	71.15	70.27	67.68	0	132.41
130	64.1	65.48	66.9	68.23	69.36	70.15	70.47	70.18	69.03	66.87	0	131.87
160	66.27	66.8	67.44	68.25	69.25	70.26	70.78	70.28	68.73	65.96	0	132.26
200	66.92	67.63	68.24	68.69	68.92	68.8	68.02	66.29	63.84	61.02	0	130.82
250	67.41	68.04	68.8	69.4	69.49	68.86	67.55	65.56	62.82	59.18	0	131.02
320	66.74	67.81	68.38	68.84	68.73	67.85	66.06	63.22	59.71	56.02	0	130.06
400	67.24	67.5	67.58	67.58	67.17	66.34	64.65	61.6	57.96	54.04	0	129.63
500	66.57	66.85	67.15	67.23	66.87	65.47	63.45	59.88	56.26	52.13	0	128.94
630	66.12	67.24	67.01	66.11	65.52	64.41	61.38	57.11	53.19	49.03	0	128.41
800	65.9	66.59	66.04	65.31	64.82	63.17	60.29	58.25	51.88	47.32	0	127.97
1000	66.11	66.87	66.01	64.38	62.97	62.07	59.38	54.59	50.34	45.27	0	127.86
1300	66.97	67.78	66.51	63.93	62.08	61.58	58.99	53.73	49.7	44.35	0	128.15
1600	67.39	68.72	66.62	63.2	61.76	61.77	58.35	52.15	48.66	43.23	0	128.39
2000	68.05	68.81	66.47	62.19	60.68	60.74	57.65	51.31	47.55	41.92	0	128.26
2500	67.24	67.96	65.56	60.98	58.95	59.14	56.12	49.3	45.37	39.39	0	127.14
3200	65.05	65.85	62.88	58.13	56.19	58.32	52.68	45.75	41.69	34.78	0	124.82
4000	59.78	60.77	58.85	54.56	52.09	51.73	47.66	39.58	34.62	26.29	0	120.41
5000	52.92	54.51	52.1	47.4	45.24	44.56	39.37	30.23	22.95	0	0	114.23
6300	44.95	45.66	43.36	36.21	34.43	33.19	26.73	1.3	0	0	0	108.43
8000	33.65	34.07	30.97	24.63	19.24	13.79	0	0	0	0	0	96.32
10000	1.08	8.91	0	0	0	0	0	0	0	0	0	77.37
OASPL	78.83	79.57	79.2	78.82	78.91	79.02	78.7	77.97	76.71	74.28	0	142.26
PNL	89.51	90.29	88.77	88.03	84.88	84.74	82.43	79.46	76.83	72.98	0	87.54

NASA Lewis Allison AST Jet Noise Test 1996

rdg	321
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	981.46
m01	0.00359
pamb	14.5057
tamb	494.599
rhumid	50.74
winds1	0
nprc	1.736
nprb	1.822
ptc	25.1819
ptb	26.4294
wactc	3.602
wactb	18.326
ttc	1364.94
ttb	489.752
ptmix	26.2245
ttmix	633.502
mixpnd	0.803447
grsvixp	21742.7
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	21:15:13
DADSdate	26.Nov.96
DADStime	21:15:13
btchdate	26.Nov.96
btchtime	21:15:13

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:31:58 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	81.37	82.27	83.01	83.62	84.13	84.57	84.98	85.4	85.85	86.37	86.99	87.75
100	82.64	83.53	84.24	84.81	85.29	85.71	86.11	86.53	87	87.55	88.22	89.06
130	82.95	83.37	83.67	83.9	84.06	84.27	84.51	84.82	85.26	85.87	86.68	87.72
160	84.15	84.87	85.43	85.87	86.25	86.6	86.96	87.41	87.94	88.58	89.39	90.37
200	85.53	86.2	86.7	87.06	87.38	87.64	87.89	88.18	88.54	89	89.59	90.36
250	85.06	85.63	86.09	86.5	86.69	87.3	87.76	88.3	88.94	89.71	90.64	91.76
320	85.81	86.47	86.97	87.35	87.63	87.86	88.13	88.44	88.85	89.39	90.13	91.08
400	85.42	86.04	86.44	86.78	87.18	87.7	88.35	89.09	89.88	90.68	91.47	92.22
500	85.66	86.31	86.78	87.17	87.55	87.99	88.47	88.99	89.55	90.25	91.09	91.72
630	85.76	86.57	87.2	87.66	87.96	88.29	88.76	89.34	89.96	90.67	91.59	92.7
800	85.77	86.78	87.7	88.43	88.75	88.8	89.15	89.76	90.52	91.38	92.2	93.07
1000	86.22	87.54	88.43	88.89	89.14	89.41	89.65	90.36	90.92	91.7	92.67	93.87
1300	86.6	88.41	89.46	90.04	90.24	90.3	90.82	91.24	92.05	92.74	93.47	94.59
1600	87.02	88.99	90.14	90.77	91.15	91.5	91.95	92.5	93.1	93.91	95.26	96.78
2000	86.89	89.39	90.91	91.77	92.25	92.57	92.94	93.56	94.47	95.52	96.81	98.28
2500	86.79	89.65	91.4	92.38	92.94	93.36	93.85	94.55	95.45	96.55	97.96	99.77
3200	86.84	89.82	91.46	92.34	92.85	93.27	93.85	94.78	96.06	97.43	99.07	100.95
4000	86.68	90.05	91.42	91.84	92.08	92.56	93.25	94.2	95.55	97.22	99	100.63
5000	85.79	89.76	90.84	90.71	90.59	91.23	92.13	93.16	94.44	96.04	97.84	99.29
6300	85.27	89.09	90.08	89.86	89.74	90.46	91.41	92.29	93.37	94.9	96.44	98.14
8000	84.06	88.47	89.49	89.22	89.25	90.35	91.3	92.05	93.02	94.35	96.06	97.45
10000	81.21	85.06	86.4	86.97	87.81	89.13	89.41	89.75	90.56	91.33	93	93.58
OASPL	98.88	100.97	102.05	102.52	102.85	103.3	103.83	104.53	105.44	106.56	107.95	108.4

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	88.72	89.96	91.52	93.47	95.87	98.57	101.12	103.02	103.79	102.93	0	137.43
100	90.11	91.42	93.05	95.05	97.47	100.14	102.5	104	104.06	102.15	0	138.3
130	89.02	90.59	92.42	94.54	96.94	99.49	101.76	103.38	103.87	102.82	0	137.82
160	91.52	92.8	94.2	95.66	97.13	98.52	99.77	100.79	101.51	101.88	0	136.99
200	91.31	92.49	93.89	95.53	97.46	99.1	99.79	99.78	99.09	97.73	0	136.43
250	93	94.32	95.64	96.9	98.01	98.88	99.38	99.29	98.5	96.87	0	136.69
320	92.24	93.59	94.97	96.02	96.93	97.61	97.53	96.32	94.72	93.03	0	135.45
400	92.88	94.14	95.17	95.32	96.26	96.57	96.14	94.4	92.78	91.57	0	135.12
500	92.76	94.15	95	95.49	95.69	95.21	94.87	93.45	91.66	89.42	0	134.68
630	93.7	94.23	94.49	94.76	94.61	95.06	94.19	91.63	90.07	88.05	0	134.57
800	94.07	94.45	94.17	94.29	94.25	93.96	93.05	90.95	88.88	86.96	0	134.56
1000	95.41	95.82	94.54	93.89	93.36	93.27	92.62	90.38	88.16	86.53	0	134.96
1300	96.51	97.04	94.43	93.59	93.6	93.84	93.02	90.39	88.43	86.68	0	136.67
1600	98.72	99.19	95.14	93.99	93.94	95.24	94.57	91.09	89.9	88.06	0	137.14
2000	100.9	101.27	95.77	94.54	94.55	96.18	95.83	92.13	91.57	90.32	0	138.6
2500	102.54	102.09	96.71	94.81	94.31	96.76	97.12	93.4	93.06	91.96	0	139.65
3200	102.75	102.29	97.84	95.01	94.43	97.14	97.49	94.08	93.04	92.25	0	140.13
4000	101.76	101.06	97.78	95.11	94.22	96.56	96.35	92.89	91.61	90.33	0	139.52
5000	100.23	99.4	96.82	94.44	92.99	95.06	94.69	90.15	88.89	86.68	0	138.17
6300	99.38	98.6	96.01	93.79	92.08	93.83	93.49	87.89	86.39	84.15	0	137.19
8000	98.17	97.04	94.59	92.62	91.25	92.25	91.34	86.6	84.29	81.63	0	136.29
10000	94.63	94.26	92.79	90.73	88.31	88.01	87.11	83.74	80.71	77.48	0	133.41
OASPL	111	110.9	108.55	108.11	108.66	110.13	110.92	110.9	110.87	109.77	0	150.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg	321
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	991.46
m01	0.00359
pamb	14.5057
tamb	494.569
rhumid	50.74
winds1	0
nprc	1.736
nprb	1.822
ptc	25.1819
ptb	26.4294
wacic	3.602
wacib	18.328
ttc	1364.94
ttb	489.752
ptmix	26.2245
ttmix	633.502
mixpnd	0.603447
grsvxp	21742.7
badchan	(26)
bkgnd	300
escdate	26.Nov.96
esctime	21:15:13
DADSdate	26.Nov.96
DADStime	21:15:13
btchdate	26.Nov.96
btchtime	21:15:13

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:32:04 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	59.59	60.96	62.11	63.04	63.78	64.4	64.91	65.36	65.77	66.19	66.64	67.17
100	60.82	62.2	63.31	64.2	64.92	65.51	66.01	66.46	66.9	67.35	67.85	68.44
130	61.07	61.99	62.69	63.23	63.66	64.02	64.36	64.71	65.12	65.62	66.26	67.06
160	62.2	63.41	64.37	65.14	65.76	66.29	66.76	67.23	67.72	68.26	68.9	69.63
200	63.45	64.62	65.54	66.25	66.79	67.22	67.58	67.91	68.23	68.59	69.01	69.52
250	62.83	63.89	64.77	65.51	66.15	66.74	67.3	67.87	68.47	69.14	69.9	70.76
320	63.3	64.5	65.43	66.15	66.69	67.12	67.48	67.83	68.19	68.63	69.19	69.66
400	62.56	63.73	64.57	65.27	65.93	66.64	67.4	68.19	68.94	69.63	70.23	70.72
500	62.36	63.59	64.52	65.28	65.94	66.57	67.18	67.74	68.27	68.84	69.49	69.84
630	61.95	63.37	64.49	65.33	65.94	66.46	67.06	67.69	68.26	68.85	69.57	70.39
800	61.42	63.05	64.49	65.62	66.25	66.52	67	67.66	68.38	69.11	69.72	70.27
1000	61.3	63.28	64.72	65.61	66.17	66.67	67.24	67.79	68.32	68.96	69.72	70.59
1300	61.27	63.59	65.2	66.23	66.76	67.06	67.52	68.19	68.94	69.5	69.99	70.78
1600	60.79	63.51	65.26	66.37	67.1	67.7	68.3	68.9	69.45	70.11	71.2	72.36
2000	59.79	63.09	65.25	66.61	67.47	68.05	68.57	69.23	70.09	70.98	72.03	73.1
2500	59.48	62.21	64.65	66.19	67.16	67.85	68.51	69.25	70.09	71.01	72.13	73.54
3200	58.74	60.67	63.06	64.57	65.54	66.28	67.05	68.03	69.24	70.43	71.76	73.19
4000	53.65	58.31	60.59	61.74	62.52	63.34	64.24	65.26	66.53	67.97	69.4	70.54
5000	48.79	54.12	56.3	57	57.48	58.52	59.66	60.81	62.05	63.44	64.8	65.61
6300	41.56	47.03	49.42	50.31	51.02	52.3	53.56	54.55	55.55	56.66	57.72	58.62
8000	30.2	36.99	39.99	41.18	42.18	43.79	45.18	46.16	47.03	47.94	48.67	49.3
10000	0	18.15	23.06	25.49	27.74	30.34	31.5	32.04	32.71	33.01	33.59	33.07
OASPL	73.83	75.59	76.93	77.69	78.58	79.12	79.66	80.3	80.97	81.69	82.52	83.43
PNL	82.74	85.74	87.7	88.93	89.75	90.43	91.09	91.82	92.68	93.65	94.74	95.87

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	67.82	68.66	69.73	71.1	72.8	74.67	76.22	76.91	76.2	73.48	0	137.34
100	69.17	70.09	71.23	72.64	74.36	76.16	77.54	77.83	76.39	72.61	0	138.16
130	68.04	69.2	70.55	72.07	73.76	75.47	76.75	77.13	76.1	73.14	0	137.6
160	70.46	71.34	72.25	73.11	73.86	74.41	74.63	74.4	73.59	72.02	0	136.67
200	70.15	70.91	71.81	72.84	74.04	74.8	74.46	73.18	70.92	67.56	0	135.97
250	71.67	72.57	73.38	74.02	74.39	74.36	73.77	72.39	69.96	66.24	0	136.02
320	70.7	71.62	72.47	72.88	73.02	72.77	71.59	69.02	65.72	61.82	0	134.55
400	71.02	71.84	72.32	71.8	71.94	71.27	69.66	66.46	62.99	59.46	0	133.88
500	70.5	71.43	71.71	71.5	70.87	69.37	67.57	64.81	61.05	56.19	0	133.02
630	71	71.04	70.7	70.23	69.19	68.55	66.34	62.14	56.44	53.56	0	132.45
800	70.86	70.73	69.83	69.17	68.18	66.73	64.38	60.51	56.13	51.07	0	131.95
1000	71.7	71.56	69.62	68.16	66.64	65.3	63.32	58.96	54.25	49.16	0	131.86
1300	72.24	72.19	68.81	67.21	66.15	65.09	62.64	57.96	53.32	47.63	0	132.04
1600	73.82	73.7	68.92	66.85	65.67	65.55	63.15	57.49	53.36	47.49	0	132.88
2000	75.21	74.96	68.66	66.47	65.27	65.36	63.14	56.99	53.24	47.5	0	133.55
2500	75.79	74.64	68.37	65.4	63.57	64.36	62.65	56.24	52.27	46.03	0	133.51
3200	74.4	73.13	67.67	63.67	61.61	62.44	60.39	53.9	48.77	42.1	0	132.36
4000	71.02	68.43	64.94	60.82	58.19	58.29	55.37	48.35	42.16	33.65	0	129.39
5000	65.69	63.77	59.58	55.66	52.15	51.51	47.47	38.67	31.45	18.41	0	124.36
6300	58.65	56.63	52.5	47.92	43.31	41.75	36.99	25.2	8.97	0	0	117.52
8000	46.81	45.92	40.94	36.01	30.91	27.15	18.76	0	0	0	0	108.12
10000	32.12	26.8	23.42	14.84	0	0	0	0	0	0	0	92.73
OASPL	84.6	84.55	83.17	83.19	83.62	84.2	84.39	83.95	82.56	79.56	0	147.28
PNL	97.14	96.48	92.66	90.73	89.72	89.96	86.56	85.72	83.19	79.24	0	93.43

NASA Lewis Allison AST Jet Noise Test 1996

rdg	325
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	396.23
m01	0.20436
pamb	14.4694
tamb	491.322
rhumid	53.52
winds1	0
nprc	1.186
nprb	1.206
ptc	16.8713
ptb	17.4501
wactc	1.835
wactb	8.747
ttc	1099.26
ttb	499.219
ptmix	17.3497
ttmix	603.274
mixpnd	0.329036
gravlxp	4192.91
badchan	(16,21,22,24,25,26)
bkgnd	306
escdate	26.Nov.96
esctime	22:01:16
DADSdate	26.Nov.96
DADStime	22:01:16
blchdate	26.Nov.96
blchtime	22:01:16

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:37:30 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	52.42	62.88	63.39	67.34	67.83	63.29	62.61	64.72	67.28	69.06	68.85	67.61	68.65	70.9	72.87	74.6	77.5	109.37
100	61.37	61.97	62.32	62.15	60.88	59.88	60.21	61.69	63.3	65.01	66.6	64.3	62.76	62.33	63.44	66.63	68.65	68.37	70.73	0	0	0	0	107.16
130	62.98	58.01	58.33	62.06	62.83	62.7	62.75	61.63	62.97	65.51	67.4	64.47	64.36	64.65	65.13	68.73	68.58	69.51	68.94	64.16	64.63	66.93	70.4	107.98
160	59.71	59.13	60.19	61.13	62.35	63.36	63.58	63.54	63.69	63.47	64.18	65.39	65.26	65.19	65.58	66.52	67.44	67.59	67.24	0	0	0	0	106.98
200	58.91	59.19	60.58	62.5	62.9	64.31	64.01	62.88	63.56	64.98	64.3	63.95	64.7	65.56	65.99	66.23	66.52	66.95	67.38	64.24	64.67	65.61	67.47	107.4
250	60.11	63.56	64.35	66.54	67.23	67.99	68.06	68.27	68.69	69.2	70.18	70.5	71.3	71.89	72.12	72.12	71.97	71.74	71.4	64.59	63.17	61.6	60.46	112.3
320	61.75	65.23	66.98	67.69	68.09	68.95	67.88	67.99	68.38	68.09	68.25	69.31	69.56	69.85	70.17	70.19	70.14	70.07	69.22	0	0	0	0	111.23
400	61.49	66.01	67.66	68.76	68.71	68.77	69.24	70.22	70.52	70.71	71.34	71.95	72.12	72.28	72.49	72.68	72.24	70.91	69.72	0	0	0	0	113.11
500	63.93	68.98	70.46	71.54	71.51	71.11	71.43	71.93	72.43	72.87	73.43	74.24	74.42	74.74	74.93	74.46	73.49	72.24	70.46	64.27	62.64	61.06	59.72	115.27
630	65.45	69.45	71.83	72.5	72.74	73.03	73.57	74.03	74.65	75.31	75.92	76.41	76.83	77.02	76.82	76.09	74.75	72.85	70.59	67.97	66.17	65.11	65.45	117.19
800	67.26	71.33	73.61	73.65	73.62	74.07	75.01	75.27	75.53	76	76.73	77.4	77.77	77.73	77.3	76.44	75.15	73.88	73.22	73.2	73.51	73.94	74.63	118.3
1000	64.99	68.69	70.26	70.73	70.99	71.42	71.99	72.68	73.48	74.54	75.81	77.07	77.82	78	77.59	76.53	74.68	72.13	69.5	67.21	65.53	64.64	64.81	117.06
1300	64.31	67.93	69.19	69.55	70.23	70.79	71.24	71.77	72.47	73.24	74.03	74.76	75.13	75.25	75.08	74.32	72.58	70.2	68.34	67.32	67.11	67.45	68.12	115.24
1600	67.62	68.88	70.05	70.71	71.25	70.83	71.14	71.85	72.51	73.2	74.12	75	75.7	76.18	76.34	76.03	74.85	73.05	71.92	71.71	72.38	73.48	74.61	116.27
2000	75.33	74.5	75.49	75.8	75.25	75.97	75.95	76.17	75.93	75.99	76.41	77.25	77.9	78.24	78.23	77.89	77.77	78.14	78.23	78.29	78.8	79.71	80.84	119.91
2500	68.26	67.3	67.99	68.48	68.77	68.91	69.1	69.4	69.69	70.19	71.08	71.88	72.11	72.24	72.14	71.55	70.64	69.81	69.13	68.78	68.97	69.75	71.18	113.05
3200	63.09	64.15	64.9	65.86	66.54	66.75	67.51	68.31	68.56	68.44	68.63	69.21	69.63	69.92	69.65	69.09	67.92	66.97	66.28	66.16	67.14	68.46	68.58	110.81
4000	62.39	63.47	64.21	64.82	65.58	66.48	67.25	67.84	68.19	67.93	67.92	68.52	68.75	69.2	69.49	69.07	68.25	67.56	66.98	66.77	67.15	67.84	68.26	110.41
5000	58.48	61.04	61.95	62.61	63.29	64.5	65.5	66.18	66.68	66.4	66.42	67.03	66.63	66.72	66.88	66.17	64.83	63.37	61.87	60.58	59.94	59.65	59.98	107.96
6300	59.37	61.88	62.77	63.43	64.29	65.21	66.41	67.07	67.42	67.29	66.99	67.59	67.14	67.48	67.79	66.79	64.82	62.93	61.4	60.47	60.3	60.49	60.34	108.84
8000	58.85	63.26	63.56	64.06	64.93	66.04	67.67	67.85	67.76	67.67	68.13	68.65	67.29	67.41	68.07	67.26	65.15	63.08	61.46	60.41	60.04	59.89	59.17	109.22
10000	59.13	62.28	62.47	63.45	64.9	65.68	65.78	66.05	65.98	65.85	66.85	66.31	64.47	64.64	66.16	66.14	64.07	61.2	59.64	59.64	60.77	61.75	60.71	107.69
OASPL	78.88	80.42	81.78	82.38	82.52	82.93	83.33	83.77	84.13	84.62	85.32	85.94	86.34	86.58	86.55	86.09	85.24	84.31	83.89	82.15	82.56	83.44	84.74	127.25

NASA Lewis Allison AST Jet Noise Test 1996

rdg	325
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	398.23
m01	0.20438
pamb	14.4694
tamb	491.322
rhumid	53.52
winds1	0
nprc	1.186
nprb	1.206
ptc	16.8713
ptb	17.4501
wactc	1.635
wactb	8.747
ttc	1099.26
ttb	499.219
ptmix	17.3497
ttmix	603.274
mixpnd	0.329038
grsvixp	4192.91
badchan	(16,21,22,24,25,26)
bkgnd	308
escdate	26.Nov.96
esctime	22:01:18
DADSdate	26.Nov.96
DADStime	22:01:18
btchdate	26.Nov.96
btchtime	22:01:18

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:37:38 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	38.6	39.25	40.99	38.62	38.33	40.42	42.85	41.48	47.3	48.19	45.94
100	37.08	37.77	40.51	41.69	41.39	40.66	42.8	41.62	42.87	43.52	43.1	42.02
130	43.08	38.51	37.67	40.71	41.65	42.67	43.66	41.51	42.65	45.59	46.64	44.51
160	35.16	38.37	38.43	40.27	42.17	43.4	43.94	43.41	42.96	43.22	43.05	43.4
200	37.75	38.81	41.52	43.49	45.65	46.15	47.69	42.6	42.81	44.5	43.95	44.59
250	39.33	43.78	45.81	47.56	47.84	48.71	47.58	47.83	48.93	49.23	50.15	50.17
320	38.98	42.85	45.28	46.76	47.29	47.6	47.98	47.38	47.49	47.73	47.28	47.65
400	38.81	45.18	47.31	49.04	49.41	49.4	49.97	49.3	49.68	49.99	50.6	51.79
500	40.57	45.6	48.13	49.62	50.41	50.92	51.64	50.67	51.31	51.43	52.08	52.33
630	42.47	47.57	50.3	51.19	51.41	52.01	53.05	52.36	53.15	53.82	54.22	54.31
800	40.94	45.55	47.9	48.02	48.09	48.77	49.42	53.18	53.26	53.37	53.95	54.44
1000	38.98	43.26	45.24	48.04	46.96	47.71	48.26	50.08	50.95	52.05	53.19	53.99
1300	39.17	42.59	44.43	45.53	46.46	46.4	47.11	48.75	49.12	49.31	49.36	49.75
1600	43.08	45.35	47	47.94	49.63	51.27	51.52	48.23	49.03	49.81	50.67	51.49
2000	46.35	45.78	47.21	47.24	44.88	44.38	44.29	51.83	51.53	51.32	51.28	51.35
2500	34.61	38.54	37.98	39.14	39.84	40.13	40.89	44.17	44.19	44.37	44.78	45.06
3200	29.56	31.82	33.53	34.96	38.18	37.3	38.31	41.84	41.71	41.28	41.02	41.11
4000	22.95	26.29	28.02	29.38	30.41	31.85	33.04	38.93	39.24	38.68	38.07	38.05
5000	0	10.85	18.85	22	24.64	26.58	29.27	33.61	34.19	33.68	33.33	33.18
6300	0	0	0	0	0.09	11.12	19.03	29.18	29.6	29.27	28.51	28.58
8000	0	0	0	0	0	0	0	19.84	19.88	19.38	18.4	17.39
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	52.64	55.48	57.63	58.73	59.22	59.8	60.41	60.91	61.31	61.88	62.38	62.65
PNL	64.41	65.74	67.6	68.33	68.82	69.65	70.38	70.83	70.92	71.07	71.22	71.4

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	42.68	41.13	41.52	45.72	46.29	44.74	45.36	0	0	0	0	107.62
100	40.21	39.62	39.85	40.31	44.38	45.75	44.44	37.97	37.18	37.37	38.35	108.78
130	43.81	44.8	44.71	45.47	45.54	44.13	43.82	0	0	0	0	107.82
160	43.44	42.72	42.46	42.73	42.01	41.86	40.58	38.85	37.86	37.03	38.38	108.58
200	44.89	45.05	46.38	45.71	46.42	45.49	44.22	0	34.85	31.25	27.38	108.67
250	50.85	50.79	50.64	49.77	48.81	47.4	45.47	31.79	0	0	0	112.42
320	48.24	47.84	47.46	48.8	48.73	44.83	43.41	0	0	0	0	110.49
400	51.77	51.56	51.46	50.76	48.78	48.58	43.35	33.02	29.58	27.17	22.5	113.27
500	52.6	52.77	52.34	50.98	49.09	46.64	43.44	38.31	34.58	30.89	26.8	114.24
630	54.49	54.38	53.82	52.53	50.34	47.78	45.53	43.87	41.78	39.32	35.84	116.04
800	54.29	53.89	52.76	51.07	48.4	44.87	40.89	36.77	32.77	28.63	24.07	114.89
1000	53.68	52.81	51.17	48.83	46.16	42.38	38.73	35.42	32.43	29.19	24.59	113.53
1300	50.15	50.48	50.17	48.97	46.31	42.6	39.34	37.08	35.4	33.19	28.88	111.51
1600	52.01	52.1	51.47	50.24	48.89	47.67	45.73	43.19	40.77	37.77	32.95	113.67
2000	51.02	50.31	49.33	47.74	45.84	44.08	42.01	39.57	38.15	31.72	25.35	112.47
2500	44.47	43.81	42.81	41.05	38.67	38.03	33.02	29.83	26.77	22.39	9.88	105.58
3200	41.02	40.6	39.74	38.04	36.66	33	30.08	26.83	22.86	15.13	0	102.31
4000	37.08	36.23	35.21	32.98	29.94	26.84	22.1	15.53	5.73	0	0	98.51
5000	32	31.25	30.33	27.9	23.73	14.45	0	0	0	0	0	93.33
6300	26.89	25.69	24.14	19.21	0	0	0	0	0	0	0	87.96
8000	7.47	0	0	0	0	0	0	0	0	0	0	76.92
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	62.69	62.42	61.82	60.71	59.22	57.3	55.38	49.65	47.58	45.24	42.98	124.14
PNL	71.16	70.67	69.95	68.64	66.91	64.94	62.5	57.57	54.73	51.24	45.49	70.92

NASA Lewis Allison AST Jet Noise Test 1996

rdg 324
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 76.39
scale 4
vid 814.59
m01 0.20603
pamb 14.4664
tamb 491.545
rhumid 53.46
winds1 0
nprc 1.369
nprb 1.436
ptc 20.0938
ptb 20.7738
wactc 2.933
wactb 13.105
ttc 1162.62
ttb 496.634
ptmix 20.6494
ttmix 618.428
mixpnd 0.668113
gravtop 13064.4
badchan (23,26)
bkgnd 306
escdate 26.Nov.96
esctime 21:49:23
DADSdate 97.08.20
DADStime 21:49:23
bichdate 26.Nov.96
bichtime 21:49:23
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Fri Aug 22 15:00:10 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	62.63	64.18	67.03	68.6	68.28	68.73	69.12	69.51	70.62	70.84	70.86	71.34	72.4	72.79	72.29	73.31	75.16	76.02	78.4	80.36	80.75	81.27	82.95	116.89
100	67.29	68.54	69.37	69.91	70.26	70.51	70.73	70.97	71.27	71.63	72.1	72.65	73.28	73.94	74.59	75.22	75.81	76.39	77.03	77.84	78.9	80.36	82.72	116.8
130	75.79	70.28	69.3	69.46	69.71	69.76	69.75	69.71	69.79	70.04	70.51	71.17	71.97	72.89	73.9	74.95	76.03	77.1	78.09	78.98	79.81	80.74	82.12	116.85
160	71.18	71.45	71.17	71.02	71.26	71.76	72.32	72.84	73.31	73.73	74.11	74.46	74.81	75.2	75.64	76.15	76.7	77.24	77.72	78.12	78.5	79.04	80.08	117.64
200	70.1	71.15	71.74	72.13	72.48	72.94	73.61	74.17	74.22	74.29	74.86	75.22	75.9	76.57	76.81	77.15	77.68	78.1	78.34	78.4	78.3	78.21	78.87	118.34
250	71.86	72.53	73.14	73.58	73.94	74.26	74.59	74.97	75.41	75.96	76.61	77.32	78.04	78.73	79.27	79.61	79.83	79.92	79.86	79.6	79.17	78.72	78.7	120.03
320	72.67	73.89	74.51	74.91	75.27	75.5	75.51	75.4	75.38	75.58	76.09	76.88	77.6	78.58	78.9	78.81	78.64	78.53	78.07	77.88	77.89	77.43	76.65	119.66
400	72.46	73.97	74.81	75.39	75.84	76.24	76.65	77.1	77.54	77.94	78.33	78.89	79.51	80.15	80.12	79.74	79.2	78.59	78.16	77.69	76.98	75.94	74.98	120.71
500	72.94	74.8	75.96	76.48	76.49	76.4	76.52	76.87	77.25	77.83	78.61	79.42	80.29	80.84	80.78	80.16	79.22	78.25	77.48	76.83	76.04	74.79	73.7	120.97
630	73.25	76.05	77.24	77.25	76.82	76.87	77.11	77.65	78.14	78.17	78.5	79.52	79.96	80.39	80.27	79.68	78.65	77.36	76.6	76.1	75.36	74.13	72.99	121
800	75.14	77.84	78.68	78.68	78.64	78.95	79.19	79.39	79.58	79.94	80.49	81.34	81.94	82.22	81.78	80.81	79.35	77.78	76.87	76.38	75.72	74.39	73.07	122.56
1000	75.75	78.83	79.38	79.04	79.09	79.45	79.85	80.17	80.45	80.67	81.17	82.03	82.66	82.99	82.31	80.83	79.18	77.72	76.76	76.47	76.1	74.55	72.65	123.13
1300	76.46	79.48	80.11	80.18	80.58	80.96	81.01	81.15	81.43	81.71	82.29	83.15	83.91	84.33	83.89	82.17	79.66	77.64	76.66	76.59	76.64	75.32	73.5	124.24
1600	76.77	80.12	80.72	80.55	80.69	81.13	81.43	81.67	81.8	81.97	82.66	84.05	84.87	85.44	84.69	82.79	80.34	77.99	76.97	77.32	77.62	76.08	73.77	124.86
2000	75.89	79.63	80.36	80.41	80.89	80.96	81.28	81.72	81.98	81.98	82.74	84.54	85.98	86.04	85.32	83.87	81.45	78.88	77.7	77.53	77.35	76.31	74.91	125.24
2500	74.66	78.06	78.79	78.81	79.16	79.81	80.49	81.07	81.27	81.21	82.31	84.48	85.34	85.55	84.82	83.1	80.77	78.52	77.23	77.12	77.27	76.23	74.72	124.55
3200	72.48	75.4	76.29	76.54	77.03	77.86	78.44	78.89	79.31	79.63	80.75	82.37	83.31	83.76	83.21	81.86	79.8	77.74	76.76	76.8	77.12	75.95	74.31	122.78
4000	70.97	73.72	74.61	74.83	75.12	75.63	76.22	76.89	77.19	77.28	78.58	80.48	80.4	80.08	79.88	78.77	77.25	75.61	74.6	75.04	75.65	74.62	72.62	120.29
5000	69.88	72.96	73.96	73.63	73.05	73.83	74.85	75.64	75.41	75.2	76.18	77.65	77.85	76.92	75.71	74.55	73.24	71.97	71.45	72.15	73.02	71.83	70.07	117.82
6300	68.6	71.9	73.06	72.61	71.44	72.59	74.03	74.99	74.62	73.87	74.48	76.22	75.63	74.54	73.27	71.94	70.39	69.09	68.69	69.54	70.48	69.23	67.46	116.24
8000	68.03	71.44	72.44	71.89	70.92	71.86	73.46	74.36	73.7	72.86	73.56	75.37	74.39	72.96	71.41	69.81	68.34	67.28	67.08	67.69	68.23	67.27	66.13	115.21
10000	66.25	69.01	69.88	69.76	69.44	70.08	70.99	71.89	70.49	69.6	70.72	71.83	70.83	68.77	66.49	67.01	65.39	63.96	63.81	64.44	64.69	63.47	62.29	112.41
OASPL	86.52	88.95	89.69	89.73	89.87	90.28	90.68	91.09	91.29	91.44	92.15	93.46	94.21	94.5	94.04	92.93	91.59	90.54	90.21	90.38	90.49	90.2	90.53	134.56

NASA Lewis Allison AST Jet Noise Test 1996

rdg 324
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vd 814.59
m01 0.20603
pamb 14.4664
tamb 491.545
rhumid 53.46
windst 0
nprc 1.389
nprb 1.436
ptc 20.0938
ptb 20.7738
wactc 2.933
wactb 13.106
ttc 1162.62
ttb 496.634
ptmix 20.6494
ttmix 618.428
mixprnd 0.868113
grsvixp 13064.4
baochan (23,26)
bkgnd 306
escdate 26.Nov.96
esctime 21:49:23
DADSdate 97.08.20
DADStime 21:49:23
btchdate 26.Nov.96
btchtime 21:49:23
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Fri Aug 22 15:00:20 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1506.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	43.07	47.55	47.94	48.04	48.24	48.48	51.09	49.47	48.69	51.38	51.11	51.16
100	44.89	48.03	49.35	49.29	49.12	48.15	49.86	50.9	50.19	49.55	49.3	51.29
130	54	49.3	47.94	49.78	50.3	50.67	52.31	49.6	49.47	51.45	51.28	51.36
160	48.29	49.78	50.96	51	52.28	52.35	53.53	52.66	52.58	53.79	53.61	53.74
200	48.4	48.39	51.12	51.55	52.91	53.11	54.33	53.9	53.35	53.72	53.82	54.58
250	50.61	52.14	53.58	54.58	55.01	55.44	55.41	54.53	56.2	56.29	57.3	57.39
320	49.85	51.28	52.31	53.18	54.27	55.16	55.5	54.8	54.43	54.83	54.58	55.67
400	49.27	51.83	53.37	54.32	54.71	54.86	55.27	56.19	56.6	56.85	57.22	57.57
500	49.18	51.87	53.9	54.48	54.57	54.83	55.16	55.6	56.01	56.54	57.13	57.57
630	49.53	53.3	54.8	55.59	55.92	56.44	57.04	55.89	56.53	56.89	57.11	57.93
800	50.89	53.8	55.08	55.3	55.91	56.89	57.25	57.29	57.51	57.56	57.94	58.64
1000	50.53	54.49	55.63	56.08	56.7	57.31	57.75	57.61	57.84	58.06	58.63	59.12
1300	50.32	54.37	55.65	56.04	56.59	57.37	57.74	58.1	58.42	58.51	58.74	59.48
1600	49.43	53.61	54.86	55.31	55.89	56.43	56.96	58.07	58.06	58.1	58.71	60.03
2000	47.38	51.74	52.96	53.42	54.02	54.66	55.27	57.41	57.66	57.58	57.99	59.5
2500	43.43	47.48	48.83	49.26	50.07	51.24	51.87	55.82	55.86	55.47	56.45	57.92
3200	38.99	42.42	44.12	45.03	45.95	46.69	47.3	52.32	52.44	52.49	52.84	54.02
4000	33.21	37.43	39.37	40.12	40.41	41.42	42.55	48	48.09	47.83	48.5	49.8
5000	24.82	30.08	32.5	33.04	32.82	34.5	36.24	43.32	42.9	42.3	42.84	43.52
6300	0	16.35	21.63	22.75	22.55	24.89	27.23	37.27	30.83	35.8	35.77	36.83
8000	0	0	0	0	0	0	0	28.4	27.59	28.1	28.01	28.89
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	61.52	63.87	65.18	65.75	66.32	66.85	67.44	67.84	68.07	68.29	68.7	69.51
PNL	70.29	73.86	75.23	75.77	76.37	77	77.68	78.21	78.31	78.27	78.67	80.01

distance: (	1665.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	51.3	51.25	51	53.06	52.31	51.53	51.03	50.65	50.17	49.27	48.49	115.68
100	51.69	51.65	51.48	51.22	53.02	52.98	52.78	52.33	51.61	50.6	49.39	116.3
130	51.77	53.9	53.94	53.92	53.75	53.55	53.92	53.17	52.04	50.48	48.84	117.35
160	54.53	54.31	54.23	55.06	54.45	53.82	52.4	51.01	50.53	48.49	48.28	117.74
200	54.69	56.15	55.82	55.13	55.73	55.02	54.04	52.66	51.32	48.81	48.09	118.6
250	57.98	57.93	57.87	57.07	56.63	55.55	54.1	52.07	49.89	47.25	43.66	120.17
320	56.25	56.56	56.61	55.49	54.74	53.48	52.16	50.12	47.93	44.73	40.9	118.72
400	57.92	57.9	57.7	56.99	55.13	53.34	51.43	49.34	46.41	43.05	38.58	119.7
500	57.8	57.87	57.19	55.72	53.87	51.65	49.5	47.67	44.95	41.06	36.06	119.25
630	58.35	58.17	57.23	55.68	53.44	50.92	48.88	46.84	44.09	39.83	34.31	119.7
800	58.82	58.63	57.56	55.82	53.14	50.44	48	45.84	43.32	38.72	32.22	120.1
1000	59.35	59.21	58.22	55.86	52.85	49.88	47.48	45.18	42.33	37.63	30.97	120.55
1300	60.09	60.03	58.49	55.85	52.47	48.92	46.45	44.82	42.42	37.11	29.31	120.81
1600	60.54	60.34	59.14	56.54	52.95	49.06	46	43.75	40.97	35.73	27.92	120.8
2000	60.32	59.7	58.01	55.39	51.73	47.93	44.88	42.32	39.05	33.62	25.43	119.9
2500	58.09	57.64	56.08	53.38	49.78	45.91	42.63	39.89	36.49	30.38	20.63	117.71
3200	54.12	53.31	51.77	49.08	45.68	42.04	38.47	35.67	32.36	25.1	-2.83	113.79
4000	48.84	47.24	45.11	42.58	39.24	35.49	31.93	28.74	24.23	8.82	0	108.71
5000	42.53	40.29	37.61	34.48	30.77	26.54	21.27	14.72	0	0	0	102.56
6300	35.2	32.43	29.28	25.1	18.82	-2.86	0	0	0	0	0	95.48
8000	24	19.02	5.79	0	0	0	0	0	0	0	0	85.25
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	69.92	69.84	68.95	67.47	65.88	64.26	62.96	61.52	60	57.84	55.7	131.34
PNL	80.29	79.83	78.48	76.31	73.5	70.42	67.92	65.66	62.81	58.67	53.33	78.7

NASA Lewis Allison AST Jet Noise Test 1996

rdg	323
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	937.23
m01	0.21581
pamb	14.4617
tamb	492.608
rhumid	53.97
winds1	0
nprc	1.537
nprb	1.815
ptc	22.2276
ptb	23.3556
wactc	3.135
wactb	15.882
ttc	1294.09
ttb	493.551
ptmix	23.1877
ttmix	626.924
mixpnd	0.783474
grsvixp	17635.9
badchan	(26)
bkgnd	306
escdate	26.Nov.96
esctime	21:32:04
DADSdate	26 Nov.96
DADStime	21:32:04
bkhdate	26 Nov.96
bkhtime	21:32:04

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:34:45 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	70.16	70.92	71.62	72.27	72.85	73.37	73.82	74.21	74.53	74.78	74.99	75.23
100	73.07	73.32	73.75	74.25	74.78	75.29	75.76	76.16	76.47	76.68	76.78	76.84
130	75.1	75.32	74.38	74.3	74.58	74.86	75.18	75.51	75.88	76.28	76.72	77.21
160	73.53	74.44	75.46	76.37	76.84	77.23	77.38	77.45	77.58	77.79	78.11	78.55
200	75.53	76.55	77.05	77.31	77.47	77.63	77.83	78.09	78.4	78.78	79.22	79.72
250	75.91	76.82	77.57	78.05	78.41	78.8	79.23	79.69	80.18	80.7	81.25	81.86
320	76.74	78.09	78.05	79.17	79.11	79.39	79.68	79.93	80.55	81.12	81.13	81.86
400	76.75	77.79	78.5	79.02	79.48	79.96	80.48	81.12	81.47	81.58	82.11	82.61
500	77.09	79.32	79.98	79.8	79.74	80.2	80.66	81.15	81.76	82.38	82.85	83.41
630	77.58	79.68	80.98	81.24	81.28	81.38	81.64	82.08	82.45	82.86	83.02	83.51
800	79.22	82.2	82.7	82.39	82.36	82.44	82.71	82.98	83.38	83.89	84.43	84.94
1000	81.08	84.42	84.51	83.96	84	84.01	84.27	84.6	84.87	85.22	85.7	86.35
1300	81.84	85.58	85.21	84.91	85.14	85.43	85.69	85.87	86.07	86.47	87.1	87.84
1600	82.21	86.03	85.37	85.12	85.84	85.99	86.21	86.49	87.04	87.89	88.84	89.85
2000	82.14	86.02	85.99	85.91	86.26	86.62	86.86	87.25	87.97	88.95	90.02	90.92
2500	81.59	84.82	85.63	85.75	85.79	86	86.52	87.19	88.04	89.1	90.38	91.5
3200	80.03	82.89	83.89	84.17	84.24	84.51	85.21	86.33	87.51	88.58	89.89	90.94
4000	76.91	79.62	80.82	81.38	81.76	82.33	83.06	83.91	85.06	86.34	87.9	88.99
5000	75.08	77.73	78.69	78.97	79.24	79.91	80.68	81.48	82.37	83.43	84.85	85.87
6300	73.6	76.38	77.3	77.49	77.7	78.38	79.44	80.16	80.96	81.77	82.69	83.2
8000	72.53	75.59	76.26	76.47	76.76	77.48	78.47	79.01	79.83	80.41	81.25	81.22
10000	70.45	72.75	72.79	73.81	75.26	75.84	75.95	76.08	76.4	76.93	77.49	76.53
OASPL	91.55	94.54	94.84	94.84	95.08	95.37	95.78	96.28	96.94	97.72	98.68	99.52

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.58	76.09	76.81	77.77	78.96	80.41	81.91	83.38	84.83	86.38	88.42	120.87
100	77.02	77.47	78.27	79.43	80.66	82.53	84.21	85.78	87.17	88.46	89.89	122.87
130	77.77	78.43	79.2	80.09	81.11	82.27	83.57	84.88	86.09	87.25	88.58	122.46
160	79.12	79.81	80.61	81.5	82.48	83.48	84.35	85	85.4	85.64	85.89	123.06
200	80.26	80.89	81.56	82.28	83.04	83.83	84.59	85.17	85.5	85.6	85.55	123.68
250	82.61	83.39	83.83	84.32	84.8	85.44	86.14	86.69	86.8	86.23	84.73	125.29
320	82.21	82.61	82.9	83.15	83.45	83.8	84.15	84.33	84.15	83.42	81.94	124.46
400	83.05	83.54	84	84.23	84.11	83.79	83.87	83.92	83.34	82.19	80.56	124.92
500	84.24	84.88	84.81	84.32	83.82	83.4	82.99	82.67	82.19	81.33	79.75	125.29
630	84.04	84.41	84.38	84.15	83.8	83.16	82.49	81.95	81.36	80.2	78.51	125.48
800	85.26	85.41	85.25	84.71	83.95	83.11	82.18	81.42	80.95	79.98	78.51	126.4
1000	87.27	87.91	87.2	85.66	84.19	82.96	81.91	81.25	80.87	80.08	78.6	127.88
1300	88.41	88.89	88.75	87.16	84.99	83.41	81.98	81.31	81.49	80.74	79.02	129.05
1600	90.26	91.01	90.39	88.18	85.63	83.78	82.53	82.21	82.54	81.8	80.12	130.27
2000	91.56	92.29	91.65	89.3	86.5	84.43	83	82.63	82.98	82.24	80.81	131.26
2500	91.94	92.52	92.15	89.95	87.21	85.17	83.33	83.1	84.35	83.48	80.79	131.48
3200	91.56	92.03	91.3	89.31	87.03	85.05	83.13	83.01	84.48	83.56	80.77	130.79
4000	89.38	89.63	88.87	86.92	85.25	83.76	82.33	82.25	83.42	82.42	79.93	128.58
5000	86.2	86.57	85.64	83.89	82.5	81.37	80.01	80.01	81.4	80.57	77.98	125.74
6300	82.87	83.53	82.78	80.78	78.99	77.59	76.33	76.35	77.49	76.92	74.78	123.28
8000	80.21	80.81	79.96	77.78	75.95	74.62	73.58	73.44	74.05	73.33	71.49	121.4
10000	75.44	76.28	75.99	74.29	72.4	70.68	69.48	69.07	69.21	68.59	67.39	117.92
OASPL	100.03	100.58	100.13	98.64	97.23	96.47	96.15	96.41	96.95	96.9	96.77	140.38

NASA Lewis Allison AST Jet Noise Test 1996

rdg 323
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
amoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 937.23
m01 0.21581
pamb 14.4617
tamb 492.606
rhumid 53.97
winds1 0
nprc 1.537
nprb 1.615
ptc 22.2276
ptb 23.3556
wacic 3.135
wacib 15.682
ttc 1294.09
ttb 493.551
ptmix 23.1677
ttmix 626.924
mixpnd 0.763474
grsvixp 17635.9
badchan (26)
bkgnd 308
eacdate 26.Nov.96
eactime 21:32:04
DADSdate 26.Nov.96
DADStime 21:32:04
blchdate 26.Nov.96
blchtime 21:32:04
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:34:53 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	56	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	49.76	50.59	53.28	53.29	53.45	53.63	56.12	54.17	52.51	55.86	55.33	54.91	54.63	54.56	54.7	56.91	57.09	57.49	57.98	58.22	58.06	57.44	56.38	121.5
100	50.5	50.13	52.95	53.3	53.67	53.4	55.3	56.09	55.52	54.96	54.54	56.69	56.61	56.05	55.78	56.05	58.32	58.63	58.94	59.06	58.71	57.78	56.43	122.23
130	53.86	53.99	53.37	56.48	56.06	55.94	57.3	55.4	55.54	57.19	56.99	56.78	56.76	56.34	58.12	57.81	58	59.8	59.71	59.19	58.02	56.35	54.12	122.64
160	51.69	53.09	55.33	55.54	56.98	56.94	57.76	57.27	56.86	57.98	57.91	57.76	59.01	58.8	58.77	59.8	59.34	58.86	58.51	58.88	57.62	55.66	52.97	122.9
200	53.64	54.79	56.25	56.46	57.44	57.57	58.99	57.81	57.51	58.3	58.15	58.95	58.89	60.53	60.49	60.21	61.01	60.75	60.34	60.37	59	58.52	52.43	124.06
250	54.12	56.4	58.02	58.64	59.08	59.31	59.52	59.26	60.53	60.62	61.42	62.1	62.14	62.49	62.17	62.04	61.3	60.45	59.91	58.36	56.27	53.57	48.93	124.86
320	53.73	55.08	56.18	57.05	57.75	58.26	59.25	59.33	59.58	60.18	59.45	59.81	60.63	60.54	61.04	60.75	59.6	58.98	57.65	56.57	54.32	50.78	46.14	123.39
400	53.8	56.08	57.3	57.66	58.18	58.8	59.41	60.21	60.61	60.86	61.08	61.17	61.35	61.79	61.07	60.53	59.82	58.18	56.86	54.74	52.53	49.18	44.28	123.71
500	53.32	55.93	57.46	58.24	58.89	59.25	59.72	59.89	60.48	61.07	61.39	61.73	62.18	62.14	61.62	60.11	58.68	57.3	55.48	53.37	50.95	47.17	41.96	123.72
630	53.47	56.91	58.54	59.03	59.17	59.84	60.5	60.42	60.79	61.2	61.3	61.78	61.74	61.34	60.55	59.8	58.43	56.6	54.61	52.41	49.67	45.9	40.04	123.62
800	55.54	59.29	60.3	60.26	60.71	60.98	61.53	60.86	61.31	61.67	62.1	62.51	62.87	62.72	61.97	60.2	58.14	55.88	53.24	50.83	48.06	44.12	38.15	124.45
1000	55.65	60.27	60.66	60.59	61.34	62.06	62.54	62.03	62.31	62.66	62.95	63.29	63.84	64.2	62.9	60.59	57.64	54.97	52.2	49.85	47.12	42.99	36.44	125.22
1300	55.78	60.1	60.29	60.65	61.32	61.93	62.41	62.82	63.06	63.5	63.93	64.43	64.88	64.94	64	61.28	57.9	55.06	52.06	49.64	47.38	42.75	35.2	125.8
1600	55.1	60.05	60.21	60.51	61.37	62.08	62.48	62.86	63.38	64.15	65.21	65.72	65.86	66.24	64.86	61.76	57.87	54.57	51.49	48.79	46.13	41.55	34.04	126.42
2000	53.63	57.86	59.05	59.7	60.2	60.86	61.27	62.95	63.7	64.54	65.46	66.11	66.19	66.18	65.03	61.79	57.73	54.26	50.75	48.16	45.98	40.87	31.26	126.32
2500	50.95	55.02	56.46	57.05	57.4	57.82	58.59	61.91	62.68	63.65	64.62	65.44	65.47	65.39	63.7	60.42	56.77	53.01	48.89	46.01	43.94	38.04	27.34	125.14
3200	45.72	49.45	51.93	52.35	52.97	53.62	54.27	58.85	60.85	61.35	62.3	62.77	62.59	62.12	60.34	57.14	53.41	49.63	45.63	42.53	39.74	32.64	19.68	122.19
4000	38.86	42.78	44.77	45.86	46.62	47.58	48.45	55.07	55.93	56.83	57.77	58.1	57.63	56.84	54.51	51.18	48	44.81	40.45	36.66	32.67	24.26	0	117.16
5000	30.37	34.77	36.93	38.16	39.14	40.35	41.71	49.22	49.9	50.49	51.34	51.47	50.42	49.66	47.4	43.79	38.93	35.66	30.94	25.97	19.57	0	0	110.4
6300	15.58	23.47	26.48	28.24	29.65	30.86	32.45	42.44	43.16	43.6	43.98	43.6	41.04	41.11	38.42	34.04	29.21	23.48	13.22	0	0	0	0	102.58
8000	0	0	0	0	0	5.01	12.21	33.3	33.78	34.03	34.04	32.73	29.92	28.75	25.13	18.12	0	0	0	0	0	0	0	91.96
10000	0	0	0	0	0	0	0	13.11	14.07	12.03	10.79	0	0	0	0	0	0	0	0	0	0	0	0	70.53
OASPL	65.84	69.03	70.01	70.42	71.03	71.5	72.17	72.68	73.13	73.76	74.3	74.8	75	75.09	74.16	72.54	70.96	69.64	68.89	68.13	66.78	64.8	62.3	136.61
PNL	75.9	79.7	80.82	81.41	82	82.49	83.16	83.65	84.46	85.25	85.96	86.57	86.6	86.54	85.16	82.64	79.8	77.08	74.16	71.99	69.92	66.27	60.73	84.88

NASA Lewis Allison AST Jet Noise Test 1996

rdg 322
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 993.06
m01 0.20634
pamb 14.4639
tamb 493.406
rhumid 51.67
winds1 0
nprc 1.735
nprb 1.818
ptc 25.0949
ptb 26.2664
wactc 3.602
wactb 18.098
ttc 1368.59
ttb 491.238
ptmix 26.072
ttmix 636.884
mixpnd 0.80262
grsvixp 21547.8
badchan (10,11,12,13,14,28)
bkgnd 308
escdate 26.Nov.96
esctime 21:23:39
DADSdate 97.08.18
DADStime 21:23:39
btchdate 26.Nov.96
btchtime 21:23:39
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 11:22:40 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	77.1	78.16	78.64	78.75	78.64	78.43	78.21	78.06	78.04	78.17	78.5	79.05
100	77.77	78.72	79.3	79.65	79.88	80.06	80.24	80.45	80.7	81	81.36	81.81
130	78.99	79.17	79.26	79.27	79.25	79.26	79.34	79.51	79.76	80.1	80.52	81.06
160	80.7	80.71	80.74	80.83	80.97	81.17	81.43	81.75	82.13	82.56	83.03	83.56
200	80.53	80.97	81.27	81.52	81.76	81.99	82.25	82.53	82.84	83.19	83.58	84.01
250	80.63	81.11	81.52	82.12	82.71	83.08	83.35	83.64	83.99	84.42	84.92	85.53
320	82.05	82.55	82.52	82.99	83.2	83	83.59	84.24	84.76	85.16	85.48	85.7
400	81.41	82.53	83.27	83.38	83.81	83.78	84.32	85.13	86.04	86.67	87.47	87.71
500	81.97	83.02	84.08	84.06	84.2	84.14	84.35	84.98	85.83	86.69	87.37	87.75
630	82.03	83.9	84.97	85.13	85.2	85.39	85.76	86.18	86.51	86.86	87.28	87.66
800	83.16	85.73	86.73	86.59	86.51	86.76	87.1	87.44	87.78	88.14	88.52	88.93
1000	84.91	87.51	87.9	87.33	87.63	88.02	88.78	89.58	90.29	90.91	91.34	91.49
1300	85.75	88.96	88.72	88.29	88.62	89.37	90.23	91.05	91.79	92.42	92.88	93.17
1600	86.58	90.28	89.83	89.86	90.15	90.87	92.16	93.36	94.29	94.89	95.25	95.44
2000	87.51	91.65	90.79	91.37	91.66	92.24	93.75	95.29	96.39	97.06	97.41	97.48
2500	87.34	91.68	91.21	91.98	92.2	92.89	94.94	96.93	98.24	99	99.36	99.34
3200	87.79	91.22	91.18	92.06	92.67	93.23	95.86	98.33	99.84	100.8	101.06	100.7
4000	87.09	90.1	90.62	91.37	91.47	92.38	95.82	98.76	100.49	101.22	101.16	100.35
5000	85.71	89.05	89.56	90.09	89.92	90.89	93.56	96.48	98.68	99.96	100.32	99.62
6300	85.42	88.46	88.88	89.54	88.91	89.96	92.49	95	96.78	97.74	97.93	97.29
8000	85.07	88.58	88.87	89.64	88.79	89.56	92.88	95.43	96.95	97.43	97.17	96.27
10000	83.21	86.32	85.98	87.4	87.53	88.36	89.86	91.03	92.04	92.81	92.62	91.94
OASPL	97.78	100.84	100.86	101.34	101.48	102.09	104.13	106.24	107.71	108.51	108.71	108.34

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	79.86	80.93	82.22	83.65	85.17	86.72	88.25	89.77	91.28	92.81	94.99	128.8
100	82.36	83.14	84.2	85.57	87.16	88.83	90.49	92.12	93.68	95.16	96.75	128.94
130	81.66	82.49	83.57	84.94	86.51	88.19	89.89	91.57	93.18	94.7	96.31	128.39
160	84.14	84.79	85.64	86.77	87.94	88.87	89.75	90.69	91.64	92.49	93.22	128.51
200	84.5	85.06	85.81	86.86	88.1	89.28	90.32	91.18	91.92	92.73	93.45	128.91
250	86.37	87.43	87.57	88.73	90.29	90.52	90.64	91.26	91.96	92.04	90.72	129.77
320	85.9	86.22	87.27	88.48	88.98	89.07	89.51	89.88	89.72	89.02	87.72	129.09
400	87.55	87.33	88.25	88.9	88.75	88.79	88.93	89.1	88.88	88.18	86.6	129.62
500	87.84	87.94	88.49	88.49	88.02	87.99	88.38	88.48	87.8	86.69	84.66	129.48
630	88.06	88.86	89.03	88.64	88.03	88.03	87.71	87.62	87.39	85.81	83.43	129.82
800	89.38	89.86	89.96	89.08	87.98	87.54	87.02	86.67	86.35	84.93	83.07	130.71
1000	91.44	91.45	91.13	89.91	88.46	87.57	86.72	86.71	86.91	85.1	82.57	132.35
1300	93.38	93.51	92.63	90.55	88.72	87.94	86.92	86.85	87.38	85.47	82.83	133.73
1600	95.62	95.84	94.43	92.26	90.33	88.85	87.98	88.15	88.52	86.87	84.47	135.75
2000	97.38	97.11	95.64	93.37	91.17	89.46	88.53	89.22	90.38	88.47	85.52	137.43
2500	98.93	98.33	97.21	95.18	92.8	90.34	89.25	90.31	91.81	89.75	86.42	138.94
3200	99.72	98.43	97.33	95.97	93.79	91.25	90	91.07	92.72	90.77	87.58	140.04
4000	98.85	97.08	96.1	95.52	93.84	90.95	89.71	90.93	92.38	90.35	87.29	139.86
5000	97.89	95.7	94.51	94	92.58	90.03	88.76	89.71	91.16	89.31	86.28	138.55
6300	95.92	94.29	93.07	92.43	91.1	88.57	87.27	88.24	89.72	88.17	85.08	136.71
8000	94.82	93.19	91.86	90.66	89.41	87.31	86.19	86.58	87.28	86.14	83.72	136.18
10000	90.72	89.52	88.5	88.17	86.78	83.49	82.42	82.92	82.94	81.72	80.03	132.28
OASPL	107.5	106.61	105.66	104.66	103.42	102.31	102.14	102.93	103.9	103.66	103.63	148.31

rdg	322
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	993.06
m01	0.20634
pamb	14.4639
tamb	493.406
rhumid	51.67
winds1	0
nprc	1.735
nprb	1.816
ptc	25.0649
ptb	26.2664
wactc	3.602
wactb	18.096
ttc	1368.59
ttb	491.238
ptmix	26.072
ttmix	636.694
mixpnd	0.80282
grsvixp	21547.8
badchan	{10,11,12,13,14,26}
bkgnd	308
escdate	26 Nov.96
esctime	21:23:39
DADSdate	97.08.18
DADStime	21:23:39
bichdate	26 Nov.96
bichtime	21:23:39

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Mon Aug 18 11:22:49 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.81	57.99	58.06	58.1	58.35	58.66	60.67	58.02	56.1	60.17	60.04	60.05
100	55.26	56.14	58.69	58.74	58.58	57.56	59.4	60.38	59.42	58.51	58.04	59.67
130	58.55	58.38	58.24	60.11	60.13	59.88	61.35	59.39	59.5	61.17	61.11	61.11
160	58.12	58.71	59.85	59.77	61.33	61.31	62.14	61.57	61.44	62.91	63.09	63.19
200	58.45	59.16	60.25	60.49	61.79	62.13	63.11	62.25	62.07	62.48	62.43	63.48
250	59.32	60.69	61.44	62.6	62.93	62.83	63.32	63.21	64.13	64.09	64.85	64.9
320	58.88	59.75	60.85	61.44	61.9	62.54	62.99	63.62	64.01	64.45	64.07	64.43
400	58.36	60.15	61.75	62.3	62.75	62.79	63.15	64.21	65.11	65.68	66	65.98
500	58.17	59.69	61.06	62.11	62.91	63.39	63.6	63.7	64.56	65.45	66.01	66.09
630	57.86	60.92	62.8	63.29	63.82	63.96	64.78	64.51	64.8	65.07	65.15	65.07
800	59.31	62.61	63.74	63.81	64.54	65.21	66.06	65.3	65.77	66.01	66.45	66.83
1000	59.65	63.4	64.11	63.85	64.48	65.63	66.89	67	67.81	68.42	68.85	68.84
1300	59.99	64.39	64.65	65.02	65.75	66.87	68.4	67.99	68.99	69.5	69.55	69.54
1600	59.73	64.52	64.63	65.7	66.52	67.43	69.06	69.75	70.67	71.44	71.69	71.71
2000	59.36	64.47	64.48	65.78	66.38	67.32	69.45	70.95	72.23	72.93	73.13	72.94
2500	57.15	62.29	62.71	64.22	65.32	66.29	69.07	71.55	73.18	73.9	74.26	73.93
3200	54.74	58.9	60.03	61.53	62.33	63.36	66.95	71.58	73.15	74.02	73.88	72.89
4000	49.15	53.63	55.11	56.61	57.04	58.21	61.37	69.89	71.28	71.78	71.47	70.24
5000	41.29	46.14	46.04	49.8	50.17	51.62	54.5	64.3	68.36	67.13	66.61	65.06
6300	30.98	36.41	39	41.11	41.19	42.97	46.69	57.08	58.72	59.52	59.41	57.93
8000	0	20.53	23.41	26.23	27.41	29.25	32.23	49.86	51.18	50.91	49.87	48.01
10000	0	0	0	0	0	0	0	33.84	34.54	33.62	31.88	29.41
OASPL	70.71	73.78	74.49	75.22	75.9	76.59	78.2	79.83	80.99	81.67	81.8	81.44
PNL	81.65	85.75	86.28	87.36	88.02	88.85	91.07	93.16	94.47	95.21	95.17	94.53

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.16	60.33	60.55	63.03	63.08	63.28	63.73	64.13	64.25	63.91	63	127.31
100	60.25	60.74	61.34	61.91	64.37	64.69	65.29	65.57	65.64	65.23	64.21	128.27
130	61.23	63	63	63.27	63.59	64.06	65.48	65.41	64.9	63.67	61.77	128.14
160	63.99	63.82	63.86	65.09	65.17	64.9	64.36	63.96	64.32	63.25	61.2	128.53
200	63.25	64.36	64.53	65.2	66.72	65.86	65.26	64.69	64.37	62.42	58.64	128.86
250	65.67	66.48	65.99	66.07	66.72	66.03	65.25	63.87	61.89	59.21	54.9	129.21
320	64.82	64.3	65.36	65.55	64.74	63.56	62.86	61.78	60.35	57.39	52.66	128.03
400	65.59	65.23	65.54	65.17	63.76	62.85	62.09	60.83	58.11	54.89	49.68	128.23
500	65.84	65.44	65.38	64.74	63.52	62.39	60.54	58.97	56.9	52.78	46.52	127.95
630	65.31	65.7	65.45	64.07	62.28	60.92	59.55	57.7	54.99	50.7	44.73	127.77
800	67.06	67.39	66.52	64.61	62.23	60.34	58.03	58.08	54.09	49.3	42.19	128.73
1000	68.56	67.96	66.93	64.22	61.56	59.78	57.41	55.28	53.05	47.81	40.42	129.74
1300	69.8	69.7	67.85	64.96	62	59.44	57.17	55.58	53.44	47.74	39.56	130.75
1600	71.47	70.99	68.72	65.74	62.86	59.68	56.83	55.04	53.13	47.34	38.4	132.13
2000	72.26	71.38	69.6	66.47	62.78	59.32	56.4	55.07	53.32	46.73	36.55	132.98
2500	72.82	71.08	69.04	66.35	62.66	58.59	55.48	53.91	51.94	45	33.93	133.34
3200	71.21	69.07	67	64.86	61.21	56.87	53.03	51.08	48.49	40.58	28.13	132.41
4000	67.88	65	62.69	60.83	57.55	52.58	48.49	45.75	42.08	32.79	15.14	129.69
5000	62.66	59.49	56.94	54.59	50.96	45.56	40.76	37.38	32.68	20.45	0	124.53
6300	55.42	52.38	49.15	46.21	42.23	38.42	30.64	24.89	14.53	0	0	117.1
8000	45.05	41.57	37.73	33.79	28.58	20.44	0	0	0	0	0	108.16
10000	26.15	22.21	15.96	0	0	0	0	0	0	0	0	90.82
OASPL	80.74	79.98	78.77	77.35	76.17	75.06	74.4	73.76	73.07	71.56	69.49	142.64
PNL	93.56	92.22	90.57	88.47	85.78	82.79	80.46	78.97	77.1	73.01	67.83	92.5

NASA Lewis Allison AST Jet Noise Test 1996

rdg 326
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 396.01
m01 0.30032
pamb 14.4177
tamb 491.118
rhumid 55.36
winds1 0
nprc 1.173
nprb 1.209
ptc 16.912
ptb 17.431
wactc 1.835
wactb 8.563
ttc 1098.79
ttb 498.77
ptmix 17.3394
ttmix 604.659
mixpnd 0.328478
grsvxp 4117.71
badchan [02,05,13,15,17,22,23,24,25,26]
bkgnd 317
escdate 26.Nov.96
esctime 22:09:27
DADSdate 26.Nov.96
DADStime 22:09:27
btchdate 26.Nov.96
btchtime 22:09:27
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:39:35 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
250	56.84	59.55	62.19	65.2	65.1	65.41	66.08	65.91	66.06	66.59	67.18	67.72	68.18	68.6	68.96	69.18	69.07	68.49	67.69	65.7	0	0	0	109.48
320	0	63.91	66.6	66.76	66.74	65.92	65.44	65.59	65.81	66.37	66.86	67.17	67.3	67.37	66.29	66.34	66.15	65.62	64.85	62.64	58.97	57.9	0	108.84
400	55.92	64.34	67.74	67.57	67.45	66.96	67.76	68.64	69.35	69.84	69.42	69.06	69.2	69.62	69.85	69.72	69.25	67.96	67.15	62.97	0	0	0	111.08
500	63.22	68.61	71.05	69.85	68.9	70	70.49	70.38	70.83	71.35	71.75	71.81	71.51	71.38	71.73	72.21	71.9	70.04	68	66.57	0	0	0	113.35
630	63	70.47	72.76	71.43	71.07	73.01	73.04	73.62	74.09	74.33	74.79	75.1	75.11	75.02	75.07	75.06	74.18	71.93	69.52	68.12	59.77	59.63	0	116.18
800	68.13	72.43	73.71	72.81	74.5	73.17	74.46	74.9	74.95	75.81	76.04	75.89	75.78	75.8	75.75	75.46	74.67	73.17	71.97	72.24	72.27	72.96	0	117.43
1000	64.88	69.74	70.56	69.43	70.03	71.17	71.71	72.62	73.1	74.33	75.29	75.77	75.78	75.62	75.06	74.06	72.72	71.04	69.43	68.06	64.94	64.25	0	115.81
1300	64.67	68.73	69.32	69.09	69.24	70.11	70.06	71.11	71.79	72.06	72.5	72.73	72.36	71.83	71.52	71.54	71.33	70.26	68.82	67.63	65.93	65.72	0	113.64
1600	68.12	69.92	69.81	71	72.13	72.1	71.97	72.38	72.37	73.51	74.83	75.86	76.55	76.69	75.95	74.78	73.76	73.04	72.64	71.97	71.8	72.68	0	116.47
2000	74.12	73.57	74.47	75.31	73.83	75.02	75.96	75.56	74.76	75.17	75.52	75.63	75.52	75.45	75.46	75.68	75.88	75.94	75.9	75.73	76.31	78	0	116.26
2500	66.47	66.62	66.66	67.96	67.76	68.56	69.04	69.59	69.12	69.73	70.36	70.6	70.39	70	69.54	69.13	68.75	68.34	67.93	67.45	67.77	69.19	0	111.87
3200	63.75	64.34	64.3	65.54	65.93	66.71	68.04	68.64	67.54	67.96	68.23	68.44	69.3	67.94	67.46	66.97	66.53	66.15	65.62	64.55	64.36	65.69	0	109.88
4000	62.55	63.1	63.33	64.14	64.64	66.25	67.38	67.84	67.27	66.42	66.79	67.42	67.32	66.9	66.54	66.31	66.05	65.64	65.11	64.25	64.29	65.78	0	109.02
5000	59.05	61.26	62.3	62.89	62.73	64.4	65.26	66.05	65.82	65.44	65.81	66.15	65.69	64.76	63.79	63.06	62.66	62.82	62.21	60.42	59.42	61.04	0	107.07
6300	59.94	62.4	63.77	64.18	63.88	65.3	65.76	66.97	66.88	66.6	66.69	66.72	66.27	65.52	64.52	63.55	62.93	62.75	62.13	60.07	59.35	61.19	0	107.87
8000	60.52	63.57	64.55	64.95	65.35	65.88	66.74	67.9	67.87	67.49	67.76	67.98	67.38	66.31	65.13	64.17	63.6	63.41	62.64	60.26	59.41	61.49	0	108.78
10000	61.49	63.16	63.49	64.17	65.36	65.66	64.83	66.43	66.94	66.8	65.53	65.53	65.04	64.33	63.73	63.3	62.79	61.94	60.56	58.56	58.02	59.78	0	107.41
OASPL	77.98	80.34	81.57	81.54	81.62	82.15	82.74	83.14	83.16	83.68	84.18	84.47	84.46	84.37	84.11	83.79	83.23	82.26	81.41	80.63	79.92	81.14	0	125.77

NASA Lewis Allison AST Jet Noise Test 1996

rdg 326
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
nairbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 396.01
m01 0.30032
pamb 14.4177
tamb 491.118
rhumid 55.36
winda1 0
nprc 1.173
nprb 1.209
ptc 16.912
ptb 17.431
wacic 1.835
wacib 8.563
ttc 1098.79
ttb 498.77
pmix 17.3394
tmix 604.659
mixpnd 0.329478
gravisp 4117.71
badchan (02,05,13,15,17,22,23,24,25,26)
bkgnd 317
eacdate 26.Nov.96
eactime 22:09:27
DADSdate 26.Nov.96
DADStime 22:09:27
btchdate 26.Nov.96
btchtime 22:09:27
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:39:42 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
160	0	0	0	0	0	40.56	45.55	0	0	0	0	0	0	0	0	41.72	41.19	44.14	0	0	0	0	0	101.47
200	34.26	42.48	47.19	48.80	48.8	48.18	46.09	45.44	47.77	49.15	50.07	50.31	50.58	50.34	49.03	47.76	45.86	43.03	42.3	39.02	36.53	33.42	0	111.87
250	0	37.98	40.5	40.27	43.33	44.91	46.38	45.03	44.55	43.29	41.69	42.84	43.34	43.93	44.87	45.04	44.56	42.45	40.17	35.76	0	0	0	107.18
320	34.87	43.38	47.8	47.39	46.41	47.67	48.76	47.7	49.13	49.69	49.56	49.24	49.07	48.64	48.32	48.2	47.27	44.49	41.11	35.5	0	0	0	111.41
400	40.51	46.08	48.56	48.39	48.78	50.48	51.45	49.12	50.24	50.85	51.45	51.25	51.4	51.12	50.98	50.51	49	45.74	41.14	38.65	0	0	0	113.35
500	38.62	47.28	50.52	50.27	51.58	51.39	52.4	51.97	52.48	52.81	53.12	53.16	53.16	52.87	52.34	51.32	49.44	46.85	42.28	39.42	28.86	28.06	0	114.96
630	43.1	47.88	48.45	46.67	48.03	47.89	48.83	52.81	52.7	53.31	53.3	52.82	51.83	51.57	50.8	49.17	46.95	43.84	44.22	42.81	40.77	38.66	0	114.02
800	39.57	44.64	45.99	45.88	46.5	47.47	47.22	50.03	50.53	51.53	52.19	52.14	51.24	49.45	47.32	45.9	44.47	42.14	40.78	37.68	32.34	28.68	0	112.09
1000	38.09	42.72	43.43	45.99	47.71	47.85	48.21	48.1	48.57	48.24	48.47	49.44	51.02	51.24	49.94	48.05	46.03	43.94	39.23	36.22	31.93	28.52	0	111.51
1300	41.92	44.34	45.07	46.64	47.09	49.75	51.39	48.79	48.72	50.1	51.09	51.16	50.3	49.72	49.12	48.49	47.78	46.47	42.06	39.54	38.87	34.12	0	112.44
1600	45.63	45.82	47.28	48.22	45.87	44.8	44.37	51.2	50.34	50.29	49.99	49.29	48.06	46.51	44.86	42.92	40.84	38.57	44.6	42.19	39.86	37.47	0	111.16
2000	35.65	38.33	37.11	39.01	39.34	40.08	41.29	44.36	43.44	43.79	43.98	43.47	42.63	41.32	39.78	38.14	36.24	34.22	35.81	32.61	29.35	26.22	0	104.58
2500	30.58	32.1	32.99	34.7	35.3	37.07	38.52	41.98	40.7	40.55	40.43	40.19	39.58	38.51	37.07	35.44	33.59	31.39	31.57	27.86	23.78	18.69	0	101.4
3200	24.43	26.52	27.73	29.2	29.89	31.92	32.83	39	38.25	37.01	36.86	36.78	35.58	33.74	31.84	29.52	27.33	24.81	28.58	24.49	19.39	10.99	0	97.41
4000	0	13.73	19.58	22.44	23.82	26.39	27.64	33.68	33.28	32.92	32.96	32.45	31.15	29.54	27.38	24.78	20.6	12.21	20.47	4.44	0	0	0	92.47
5000	0	0	0	-1.58	-0.91	11.47	16.33	29.05	29.13	28.64	28.4	28	26.62	23.98	19.27	9.77	0	0	0	0	0	0	0	87.22
6300	0	0	0	0	0	0	0	19.85	19.29	17.88	17.78	16.1	4.52	0	0	0	0	0	0	0	0	0	0	76.23
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	50.69	55.06	57.27	57.54	58	58.87	59.5	58.92	60.21	60.74	61.05	60.97	60.72	60.24	59.42	58.5	56.97	54.75	52.25	49.48	45.59	43.03	0	122.54
PNL	62.56	64.98	66.7	67.58	66.84	68.28	69.49	69.7	69.34	69.46	69.45	69.1	68.43	67.7	66.78	65.91	64.59	62.69	60.23	57.1	52.4	49.4	0	67.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg 327
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld NS20
nozbld SHS0
anoz 41.226
ambrc 35.02
amixb 78.39
scale 4
vid 804.61
m01 0.30057
pamb 14.4197
tamb 491.234
rhumid 55.19
winds1 0
nprc 1.384
nprb 1.441
ptc 19.9569
ptb 20.7788
wactc 2.811
wactb 13.162
ttc 1160.94
ttb 495.916
ptmix 20.6341
ttmix 612.95
mixpnd 0.86287
grewxp 12852
badchan {02,05,09,10,14,15,23,24,25,26}
bkgnd 317
escdate 26.Nov.96
esctime 22:16:06
DADSdate 26.Nov.96
DADStime 22:16:06
btchdate 26.Nov.96
btchtime 22:16:06
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 02:41:39 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0
200	66.86	67.64	68.48	68.89	68.72	68.76	69.27	70.06	70.99	71.86	72.68	73.38
250	69.97	72.04	73.21	73.11	73.03	72.83	73.04	73.46	73.94	74.47	74.99	75.56
320	69.59	72.19	73.87	73.21	73.53	73.71	73.71	73.68	73.61	73.81	74.3	75.15
400	69.37	72.07	73.87	73.78	74.58	74.75	75.59	76.3	76.02	75.61	76.12	76.65
500	71.67	74.77	75.95	74.9	74.9	76.01	76.46	76.51	76.67	77.06	77.49	77.6
630	72.14	76.4	77.1	74.98	75.73	76.67	77.2	77.13	76.51	76.38	77.23	77.76
800	73.48	77.62	77.98	76.44	77.89	77.89	78.2	78.53	78.29	78.09	78.56	78.72
1000	74.71	78.89	79.44	77.98	78.04	78.8	79.59	80	79.6	79.14	79.49	79.74
1300	75.82	79.34	79.25	79.1	79.43	79.59	80.26	80.86	80.16	79.76	80.41	80.76
1600	75.89	79.36	78.88	78.84	79.83	80.37	80.64	80.69	80.4	80.31	80.76	81.2
2000	74.92	78.53	78.25	78.24	79.75	80.23	80.93	81.43	81.14	80.87	80.86	81.09
2500	73.32	76.45	78.07	76.63	78.4	78.55	79.16	79.77	79.64	79.55	80.21	80.96
3200	70.63	73.9	73.6	73.79	76.26	76.22	76.84	77.69	77.87	77.83	78.38	79.27
4000	69.14	72.41	72.87	72.51	74.18	74.34	74.96	75.62	75.86	75.63	75.82	76.19
5000	68.46	71.69	71.73	71.42	72.86	73.27	74.12	74.66	74.06	73.39	73.78	74.14
6300	67.81	71.04	70.95	70.56	72.06	72.64	73.52	74.06	73.52	72.84	72.27	72.16
8000	66.16	71.3	70.79	70.25	72.06	72.39	73.53	74.29	73.28	71.91	71.86	71.94
10000	67.56	69.8	69.02	68.82	70.92	72.18	73.39	73.3	70.9	68.88	69.69	70.22
OASPL	84.63	88.09	88.3	87.77	88.76	89.15	89.74	90.14	89.85	89.61	90.05	90.5

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	42.93
200	73.65	73.88	73.37	72.73	72.49	72.95	73.75	74.27	71.98	72.38	0	114.61
250	76.1	76.61	77.06	77.26	76.94	76.53	76.19	75.86	74.64	74.24	0	117.79
320	75.92	76.23	75.87	75.39	75.22	75.24	75.17	74.71	73.33	71.86	0	117.26
400	76.94	77.01	76.9	76.53	75.83	75.6	75.42	74.38	70.17	69.01	0	118.32
500	77.61	77.71	77.96	77.95	77.05	75.91	75.03	74.44	72.8	71.23	0	119.32
630	77.93	78.1	78.41	78.25	76.87	75.34	74.27	73.55	72.69	71.64	62.63	119.59
800	78.65	78.68	78.94	78.73	77.22	75.85	74.8	73.63	72.52	71.79	67.49	120.84
1000	79.83	79.83	79.72	79.07	77.3	76	74.93	73.25	72.25	72.26	69.69	121.82
1300	80.79	80.73	80.84	80.43	78.62	76.63	75.39	73.75	72.98	73.34	71.88	122.46
1600	81.5	81.76	82.06	81.77	79.91	76.16	76.54	74.55	73.69	74.41	74.11	123.01
2000	81.62	82.25	82.96	82.66	80.34	78.09	76.4	74.9	74.73	75.74	75.18	123.26
2500	81.62	82.11	82.48	81.97	79.63	77.69	76.68	74.84	74.46	75.61	75.51	122.38
3200	80.05	80.54	80.84	79.83	77.73	76.64	75.96	74.23	73.76	75.31	75.26	120.54
4000	76.45	76.62	76.7	76.3	74.9	73.92	72.99	71.39	71.45	73.58	73.81	117.83
5000	74.07	73.73	73.23	72.41	70.93	69.99	69.16	67.74	68.03	70.37	70.64	115.73
6300	71.99	71.7	71.25	70.16	68.11	66.97	66.3	64.89	65.2	67.69	67.95	114.46
8000	71.7	71.13	70.22	68.73	66.51	65.35	64.79	63.59	63.91	66.06	66.4	114.14
10000	69.87	68.99	67.82	66.33	64.29	62.6	61.41	60.4	60.66	62.69	62.59	112.63
OASPL	90.81	91.05	91.25	90.86	89.2	87.9	86.96	85.84	84.79	85.16	83.18	132.26

NASA Lewis Allison AST Jet Noise Test 1996

rdg	327
run	1
test_prog	Allison96
test_num	3
test_faci	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engi	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	604.61
m01	0.30057
pamb	14.4197
tamb	491.234
rhumid	55.19
windel	0
nprc	1.384
nprb	1.441
ptc	19.9569
ptb	20.7788
wactc	2.811
wactb	13.162
ttc	1160.94
ttb	495.916
ptmix	20.6341
ttmix	612.95
mixpnd	0.66287
gravimp	12862
badchan	(02,05,09,10,14,15,23,24,25,26)
bkgnd	317
secdate	26.Nov.96
sectime	22:16:06
DADSdate	26.Nov.96
DADStime	22:16:06
btchdate	26.Nov.96
btchtime	22:16:06

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:41:45 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (i	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	39.34	39.26	44.96	47.38	48.12	0	0	0	0	45.63	46.96	49.67	47.87	48.58	47.4	47.16	0	0	0	0	0	108.92
160	45.08	47.58	48.75	49.45	50.81	52.17	52.94	49.8	51.63	51.73	52.08	53	53.03	54.14	53.81	54.28	53	52.53	48.62	47.84	43.67	41.83	0	116.02
200	48.21	50.64	53.1	53.4	53.73	53.48	53.08	53.04	54.07	55.15	55.62	55.34	55.62	55.51	54.9	53.44	52.38	50.75	51.01	49.22	47.29	44.52	0	117.74
250	46.65	49.65	50.9	51.07	52.14	53.22	54.55	53.07	52.81	52.21	52.47	53.24	54.24	54.32	53.9	53.27	51.88	50.62	49.75	47.81	44.2	40.38	0	118.48
320	45.8	49.95	52.02	52.45	53.14	54.46	54.93	55.39	55.29	54.74	54.77	54.93	55.24	55.12	54.77	54.1	52.8	50.87	49.57	47.03	40.97	37.39	0	117.58
400	48.27	51.66	53.77	52.69	53.21	54.41	55.18	55.24	55.59	55.96	56.47	56.38	55.8	55.27	55.11	54.23	51.98	49.51	48.45	46.53	43.13	39.13	0	118.03
500	47.94	53.19	54.08	52.67	54.45	55.62	56.18	55.46	54.98	54.74	55.41	55.67	55.25	54.84	54.78	54.14	51.8	49.27	47.3	44.93	42.11	38.37	25.78	117.69
630	48.76	53.78	54.76	54.04	55.35	55.92	56.74	56.44	56.13	56.07	56.14	56.47	56.47	56.13	55.4	53.85	51.32	48.82	48.9	44.14	40.87	37.31	28.88	118.6
800	49.21	54.24	55.27	54.96	56.34	56.11	57.11	57.43	57.13	56.46	56.86	56.86	56.56	56.02	55.34	54.08	51.42	48.6	48.36	42.83	39.48	38.43	29.5	118.95
1000	49.65	53.95	54.22	54.4	55.52	56.46	56.97	57.8	57.08	56.64	56.79	57.02	56.99	56.74	56.26	55.03	52.45	49.47	45.71	42.34	39.14	38.18	29.72	119.15
1300	48.58	52.84	53.12	53.44	55.13	55.91	56.72	57.08	56.79	56.57	57.01	56.99	56.7	56.65	56.74	55.69	52.11	48.44	46.26	42.17	38.71	35.72	29.83	118.93
1600	46.3	50.54	50.72	51.52	53.33	53.5	53.97	57.14	56.78	56.19	55.96	56.14	56.25	56.07	55.74	54.38	50.75	47.38	45.07	41.38	38.26	35.2	28.48	117.88
2000	42.83	46.59	46.37	47.05	49.87	49.83	50.37	54.54	54.24	53.82	53.87	54.1	54.3	54.05	53.26	51.27	47.56	44.81	44.1	40.01	36.29	32.97	26.04	115.27
2500	37.26	41.24	42.08	42.74	45.07	45.41	46.08	51.04	50.83	50.51	50.27	50.13	49.88	49.26	48.1	46.08	42.85	39.9	41.81	37.29	33.15	29.64	21.46	111.15
3200	31.49	36.32	37.94	38.13	40.08	40.71	41.77	46.66	46.58	45.99	45.81	45.42	44.59	43.38	41.68	39.4	36.12	32.8	36.5	31.63	27.43	23.38	0	106.19
4000	23.74	29	29.95	30.78	33.34	34.5	35.62	42.45	41.57	40.55	40.21	39.57	38.48	37.1	35.12	32.22	27.95	23.45	28.93	23.22	15.88	0	0	100.42
5000	0	14.12	18.87	20.15	23.4	24.85	26.94	36.22	35.62	34.51	33.75	32.98	31.58	29.82	27.51	23.24	12.49	0	18.57	0	0	0	0	93.54
6300	0	0	0	0	0	0	0	29.21	27.09	24.88	23.85	22.81	20.48	15.62	0	0	0	0	0	0	0	0	0	83.75
8000	0	0	0	0	0	0	0	-1.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.3
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	56.5	62.65	63.72	63.56	64.72	65.53	66.21	66.84	66.47	66.25	66.5	66.68	66.65	66.49	66.06	65.05	62.78	60.66	58.79	56.45	53.07	49.98	37.15	128.8
PNL	66.01	72.21	73	73.25	74.9	75.59	76.33	76.79	76.53	78.1	76.08	76.33	76.3	76.02	75.48	74.14	71.03	68.11	65.33	61.65	57.63	54.11	41.15	74.5

NASA Lewis Allison AST Jet Noise Test 1996

rdg	328
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.17
m01	0.30095
pamb	14.4197
tamb	491.488
rhumid	53.39
winds1	0
nprc	1.54
nprb	1.812
ptc	22.2083
ptb	23.2448
wactc	3.14
wactb	15.585
ttc	1297.57
ttb	495.445
ptmix	23.0706
ttmix	829.953
mixpnd	0.784026
gravixp	17604.7
badchan	(14,15,17,24,25,26)
bkgnd	317
escdate	26.Nov.96
esctime	22:24:00
DADSdate	26 Nov.96
DADStime	22:24:00
btchdate	26.Nov.96
btchtime	22:24:00

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:44:01 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale f

distance: ('	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	69.57	69.32	70.08	70.62	70.95	71.4	72	72.48	72.54	72.3	72	71.85	71.99	72.5	73.42	74.67	76.05	77.47	79.02	80.7	81.88	82.37	83.13	117.82
160	71.95	72.88	72	71.81	72.27	73.57	74.79	74.25	74.39	75.08	75.48	75.65	75.8	76.07	76.35	76.71	77.3	78.17	79.37	80.56	81.38	81.99	0	119
200	72.68	72.07	73.84	74.12	74.68	75.2	75.36	75.73	75.16	75.6	77.17	78.05	77.96	77.77	77.92	78.31	78.75	79.19	80	81.45	82.48	82.43	80.85	120.35
250	74.16	74.82	75.61	77	77.11	76.6	77.31	77.36	77.31	77.77	78.12	79.05	80.13	80.94	81.15	80.96	80.88	81.26	81.81	81.82	81.89	82.41	82.11	122.09
320	74.79	76.6	76.74	78.2	77.72	77.8	78.38	78.2	78.43	78.24	78.41	78.9	79.53	80.13	80.54	80.8	80.73	80.25	79.95	79.94	79.9	79.62	77.18	121.85
400	75.68	76.68	77.36	77.85	77.63	77.58	78.83	79.3	78.89	79.61	79.39	79.7	80.3	80.8	80.84	80.56	80.34	80.35	80.27	79.51	78.62	78.11	73.8	122.13
500	76.31	78.71	79.58	79.71	79.22	79.3	79.19	79.26	79.47	80.02	80.89	81.36	81.9	82.22	82.21	81.89	81.23	80.27	79.43	78.91	78.32	77.4	75.73	123.15
630	77.5	79.68	79.91	79.83	80.07	80.16	80.33	80.46	80.78	81.28	81.44	81.84	82.32	82.62	82.45	81.94	81.25	80.48	79.6	78.42	77.47	76.76	76.19	123.7
800	79.28	82.11	82.42	82.15	82.02	81.85	81.89	82.05	82.4	82.8	83.01	83.27	83.48	83.43	83.06	82.4	81.62	80.82	79.84	78.48	77.17	76.22	75.7	125.03
1000	81.09	84.01	84.04	83.84	83.82	83.69	83.62	83.68	83.75	83.61	83.64	84.28	84.99	85.22	84.48	83.08	81.71	80.78	79.99	78.44	77.04	76.33	76.45	126.34
1300	82.82	85.33	85.2	85.16	85.17	84.95	84.74	84.88	85.44	85.71	85.48	85.87	86.48	86.73	86.07	84.68	83.11	81.77	80.62	79.34	78.28	77.7	77.88	127.79
1600	83.12	85.58	85.64	85.72	85.84	86.01	86.16	86.37	86.74	86.87	86.91	87.5	88.21	88.54	88.02	86.75	85.17	83.51	81.91	80.36	79.13	78.48	78.59	129.12
2000	83.44	85.74	85.97	86.17	86.39	86.48	86.7	86.92	87.74	88.12	87.7	88.21	89.05	89.58	89.23	88	86.33	84.49	82.71	81.12	79.88	79.23	79.55	129.92
2500	81.98	84.2	84.75	85.59	86.14	86.13	86.8	87.09	88.19	88.65	88.12	88.85	90.03	90.78	90.35	88.9	87.09	85.39	83.99	82.58	81.36	80.57	80.59	130.38
3200	80.02	82.53	83.02	83.59	84.26	84.88	85.68	86.05	87.06	87.97	88.17	88.87	89.56	89.84	89.3	88.05	86.58	85.17	83.88	82.41	81.2	80.58	80.85	129.58
4000	77.39	79.54	79.78	81.03	81.52	82.14	83.5	83.43	84.69	85.82	85.98	86.37	86.81	87	86.85	85.79	84.75	83.67	82.8	81.48	80.43	79.82	80.34	127.18
5000	75.8	77.69	77.82	78.88	78.78	79.77	80.85	81.11	81.68	82.48	82.87	83.19	83.33	83.28	83.01	82.5	81.79	80.9	79.84	78.59	77.49	77.01	77.82	124.12
6300	74.2	76.56	76.55	77.37	77.07	78.38	79.71	79.42	79.85	80.71	79.88	79.7	79.83	79.98	79.75	78.13	78.22	77.12	75.94	74.73	73.79	73.5	74.41	121.55
8000	73.53	75.78	75.75	76.34	75.85	77.23	76.69	78.05	78.14	78.97	78.28	77.78	77.44	77.12	76.63	75.92	75.08	74.13	73.08	71.84	70.66	70.08	70.95	119.7
10000	72.11	73.38	72.87	73.62	73.98	75.92	76.18	75.14	74.65	75.25	74.92	74.4	73.75	73.11	72.53	71.95	71.21	70.14	68.93	67.8	66.8	66.18	66.63	116.62
OASPL	91.7	94.01	94.24	94.58	94.74	94.92	95.33	95.51	96.14	96.64	96.58	97.08	97.76	98.13	97.74	96.72	95.52	94.45	93.61	92.68	92.41	92.17	91.48	138.67

NASA Lewis Allison AST Jet Noise Test 1996

rdg	328
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	940.17
m01	0.30095
pamb	14.4197
tamb	491.488
rhumid	53.39
winds1	0
nprc	1.54
nprb	1.612
ptc	22.2063
ptb	23.2446
wactc	3.14
wactb	15.585
ttc	1297.57
ttb	495.445
ptmix	23.0705
ttmix	629.953
mixpnd	0.764026
grsvisp	17604.7
badchan	(14,15,17,24,25,26)
bkgnd	317
escdate	26.Nov.96
esctime	22:24:00
DADSdate	26.Nov.96
DADStime	22:24:00
btchdate	26.Nov.96
btchtime	22:24:00

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 02:44:11 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	0	0	0	0	0	0	0	0	0	0	0	0
80	0	46.07	46.75	47.22	49.96	50.57	52.27	0	0	0	49.03	49.34
100	48.67	48.13	48.72	49.81	49.58	52.35	52.98	52.35	52.17	53.23	52.02	53.34
130	49.64	51.01	51.53	52.04	53.7	56.25	54.79	54.07	53.38	55.48	56.46	57.75
160	50.32	51.37	52.46	53.84	55.24	55.14	57.18	55.45	54.71	54.98	55.53	56.68
200	52.62	53.69	55.18	57.15	57.32	57.57	58	56.92	57.84	58.9	58.82	58.75
250	52.25	54.38	55.01	55.69	55.97	56.49	57.79	57.59	57.16	56.65	57.05	57.63
320	52.25	54.83	56.29	57.46	57.1	57.7	57.66	58.4	58.29	58.92	58.52	58.71
400	52.45	55.39	56.63	57	57.59	58.1	58.47	58	58.29	58.91	59.64	59.91
500	53.4	56.96	57.83	58.21	58.85	59.32	59.77	58.79	59.38	60.09	59.96	60.03
630	54.92	58.67	59.47	59.78	60.25	60.48	60.88	59.95	60.29	60.49	60.38	60.73
800	55.73	59.61	60.31	60.9	61.24	61.31	61.38	61.12	61.16	60.98	61.41	61.9
1000	56.57	59.89	60.58	61.18	61.79	62.15	62.43	61.81	62.46	62.77	62.42	62.64
1300	56.03	59.43	60.05	60.69	61.36	61.8	62.15	62.78	63.26	63.51	63.23	63.51
1600	54.94	57.89	58.77	59.71	60.53	60.86	61.34	62.58	63.36	63.74	63.28	63.64
2000	51.54	54.87	55.81	56.65	57.09	58.32	59.16	61.81	62.89	63.1	62.37	62.9
2500	48.55	49.89	51.03	52.33	53.08	53.65	54.81	59.37	60.12	60.79	60.48	60.36
3200	39.7	42.95	44.05	45.82	46.43	47.54	48.79	54.81	55.54	56.21	55.72	55.24
4000	31.32	34.92	36.25	38.1	38.73	40.21	41.81	48.81	49.06	49.41	48.98	48.17
5000	18.84	23.47	25.76	28.18	28.72	30.83	32.77	41.81	42.03	42.42	40.87	39.64
6300	0	0	0	0	0	2.33	14.02	32.3	32.25	32.58	31.03	29.27
8000	0	0	0	0	0	0	0	10.88	5.45	1.08	-2.11	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	65.1	68.14	69.02	69.76	70.33	70.75	71.22	71.52	72.01	72.39	72.22	72.55
PNL	75.89	79.05	79.98	80.9	81.82	82.09	82.67	83	83.73	84.07	83.69	84.01

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	65.35
80	49.68	52.02	52.42	52.76	52.17	53.92	0	0	0	0	0	113.64
100	52.61	52.03	53.89	53.44	53.16	54.37	54.18	54.5	54.08	52.63	50.82	118.1
130	56.7	56.25	55.1	55.99	55.25	54.31	54.48	54.29	53.22	51.57	0	119.54
160	56.97	58.43	57.97	57.92	56.82	57.33	54.94	55.01	54.32	52.21	49.68	120.73
200	59.38	59.5	58.51	58.68	57.79	55.91	56.71	55.18	54.14	52.38	48.77	122.15
250	57.84	58.08	57.75	57.09	56.3	55.4	54.59	53.04	51.42	48.91	43.57	120.8
320	59.35	59.65	59.27	58.36	56.87	55.13	54.4	52.17	49.6	46.7	39.12	121.68
400	59.96	59.49	59.1	58.06	56.49	54.46	52.89	50.98	48.51	45.2	40.28	121.78
500	59.98	59.63	58.77	57.5	55.92	54.33	52.48	49.78	48.83	43.45	39.01	122.21
630	60.96	61.05	60.03	57.94	55.72	53.56	52.02	48.99	45.57	41.85	37.18	123.12
800	62.38	62.02	60.7	58.51	55.99	53.53	51.4	48.04	44.29	40.44	36.12	123.98
1000	62.74	62.86	61.74	59.79	57.39	54.58	50.98	47.92	44.39	40.45	35.51	124.78
1300	63.91	63.79	62.78	60.67	58.02	54.81	51.53	47.95	44.14	39.78	34.43	125.27
1600	64.14	64.21	63.11	60.78	57.88	54.73	51.33	47.57	43.48	38.78	32.84	125.13
2000	63.4	63.15	61.64	59.09	56.02	52.98	51.37	47.59	43.2	37.84	31.12	123.85
2500	60.18	59.43	57.83	55.44	52.65	49.55	48.65	45.42	40.63	34.95	27.33	120.74
3200	54.57	53.33	51.64	49.51	46.85	43.59	45.98	41.84	36.4	29.86	20.11	115.47
4000	47.22	45.98	44.15	41.63	38.53	34.55	38.52	34.48	28.29	19.17	0	108.52
5000	38.57	37.03	34.87	31.83	27.68	22.28	29.79	23.23	6.26	0	0	100.42
6300	27.12	24.32	20.15	11.55	0	0	9.33	0	0	0	0	89.77
8000	0	0	0	0	0	0	0	0	0	0	0	86.68
10000	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	72.8	72.73	71.8	70.2	68.29	66.62	65.1	63.46	61.82	58.59	55.53	134.57
PNL	84.28	84.02	82.78	80.7	78.18	75.6	72.79	69.44	65.73	61.72	55.88	81.79

NASA Lewis Allison AST Jet Noise Test 1996

rdg	329
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1046.83
m01	0.3012
pamb	14.4204
tamb	491.223
rhumid	52.82
winds1	0
nprc	1.744
nprb	1.818
ptc	25.1492
ptb	26.2163
wactc	4.102
wactb	17.839
ttc	1362.32
ttb	495.455
ptmix	26.0168
ttmix	661.26
mixpnd	0.830321
grsvixp	22968.5
badchan	(05,12,15,16,23,26)
bkgnd	317
escdate	26.Nov.96
esctime	22:32:46
DADSdate	26.Nov.96
DADStime	22:32:46
btchdate	26.Nov.96
btchtime	22:32:46

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 02:47:07 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	73.32	73.71	74.03	74.3	74.8	75.09	75.29	75.44	75.79	76.53	77.7	78.95	79.94	80.44	80.29	79.88	80.79	82.89	85.18	87.43	89.75	92.28	123.21
100	73.03	74.14	75.9	77.85	77.39	78.45	79.42	78.47	76.7	76.54	78.21	80.76	81.42	80.89	80.46	81.05	82.83	84.51	85.72	86.85	88.5	90.91	93.88	125.08
130	75.36	76.86	76.24	76.07	77.08	76.96	77.02	77.91	77.4	77.84	78.78	79.72	80.27	80.61	80.93	81.34	82.07	83.25	84.84	86.61	88.04	89.32	92.12	124.35
160	75.86	77.53	78.51	78.18	79.36	78.9	78.74	79.94	79.01	79.23	80.01	80.76	81.05	81.15	81.41	82.05	83.13	84.39	85.68	86.98	88.24	89.42	90.05	125.02
200	77.68	78.32	80.28	80.37	79.33	80.03	79.61	79.74	80.7	81.19	81.08	80.77	81.18	81.97	82.84	83.7	84.64	85.47	86.34	87.48	88.48	89.15	89.6	125.75
250	79.62	79.37	81.11	80.34	80.22	80.76	80.5	80.98	82.46	82.79	82.6	82.58	82.93	83.43	84.12	84.99	85.87	86.33	86.68	87.38	88.2	88.92	88.83	126.54
320	79.91	80.83	81.74	81.25	81.09	81.63	81.24	81.21	81.38	81.79	82.02	81.98	82.19	82.65	83.32	84.14	85.08	85.8	86.18	86.26	86.4	86.73	86.75	125.95
400	80.04	81.26	83.08	82.45	81.94	81.79	82.77	82.93	83.12	83.55	84.09	84.69	85.13	85.41	85.58	85.61	85.65	85.92	85.98	85.37	85.04	85.32	85.02	127.01
500	81.49	82.69	84.24	83.2	82.73	82.8	82.86	83.07	83.13	83.49	84.03	84.59	84.92	85.04	85.08	85.01	84.9	84.76	84.47	84.05	83.82	83.81	83.77	126.84
630	81.68	84.03	85.35	84.29	83.94	84.39	84.57	85.03	85.02	84.52	84.77	86.01	86.48	86.29	86.98	85.81	85.82	85.26	84.2	83.12	82.58	82.61	82.57	127.87
800	83.04	86.12	87.24	86.11	86.29	86.34	86.24	86.37	87.03	87.18	87.38	87.86	87.98	87.7	87.23	86.69	86.18	85.04	83.77	83.15	82.56	81.79	81.82	128.42
1000	85.06	88.01	88.92	87.8	87.31	86.94	87.38	88.01	88.22	88.42	88.73	89.03	88.75	88.09	87.36	86.82	86.51	85.2	83.57	82.72	82.4	82.22	81.77	130.42
1300	86.72	89.55	90.14	89.66	89.26	88.95	89.23	89.75	90.08	90.46	90.72	90.83	90.73	90.33	89.65	88.86	87.48	86	84.5	83.24	82.45	82.29	82.54	132.2
1600	87.59	90.42	90.9	90.67	90.54	90.53	90.95	91.4	91.79	92.17	92.6	93.13	93.58	93.6	92.85	91.08	88.68	86.79	85.49	84.51	83.78	83.44	83.81	134.09
2000	88.17	91.3	92.08	91.83	91.5	91.64	92.54	93	93.5	94.31	94.99	95.5	95.9	95.65	95.07	93.34	90.95	88.8	87.16	86.08	85.42	85.23	85.61	135.97
2500	88.35	91.39	92.36	92.56	92.59	92.62	93.77	94.2	94.38	95.14	96.12	96.97	97.44	97.27	96.31	94.52	92.2	90.1	88.48	87.33	86.65	86.57	87.15	137.1
3200	88.63	91.82	92.6	92.56	92.53	92.82	94.38	94.81	95.08	96.03	97.17	98.1	98.45	98.13	97.16	95.44	93.24	91.2	89.57	88.46	87.84	87.78	88.46	137.89
4000	87.62	90.94	92.37	92.24	91.54	91.94	94.01	94.19	94.58	95.78	97.03	97.83	97.88	97.23	95.97	94.16	92.25	90.58	89.25	88.27	87.72	87.75	88.59	137.31
5000	86.51	89.59	91.15	90.94	89.54	90.15	92.72	93.04	93.03	94.44	95.75	96.15	95.94	95.13	93.9	92.37	90.67	89.03	87.69	86.82	86.44	86.64	87.71	135.7
6300	86.97	89.28	90.95	90.77	89.04	89.34	91.94	92.05	91.58	92.84	94.07	94.35	94.05	93.19	91.94	90.43	88.77	87.14	85.81	85.02	84.81	85.23	86.53	134.28
8000	86.54	88.9	90.55	90.36	88.54	88.89	91.78	91.5	90.79	92.04	93.33	93.58	92.88	91.45	89.75	88.08	86.61	85.19	83.92	83.1	82.79	83.09	84.34	133.38
10000	84.7	86.62	87.82	88.01	87.41	87.69	89.14	88.84	87.99	89.37	89.99	88.89	87.88	86.86	85.94	84.97	83.79	82.02	80.23	79.17	78.77	78.95	80	130.24
OASPL	98.22	100.98	102.07	101.83	101.3	101.48	102.9	103.18	103.31	104.2	105.18	105.74	105.85	105.43	104.6	103.06	101.52	100.27	99.49	99.24	99.49	100.22	101.45	146.06

NASA Lewis Allison AST Jet Noise Test 1996

rdg	329
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	NS20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1046.83
m01	0.3012
pamb	14.4204
tamb	491.223
rhumid	52.82
winds1	0
nprc	1.744
nprb	1.818
ptc	25.1492
ptb	26.2183
wactc	4.102
wactb	17.839
ttc	1382.32
ttb	495.455
ptmix	26.0188
ttmix	661.26
mixpnd	0.830321
gravixp	22968.5
badchan	{05,12,15,18,23,26}
bkgnd	317
ascdate	26.Nov.96
asctime	22:32:46
DADSdate	26.Nov.96
DADStime	22:32:46
btchdate	26.Nov.96
btchtime	22:32:46

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 02:47:17 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4365.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	50.77	62.5	52.55	56.59	55.51	57	58.16	55.25	56.87	56.7	57.41	57.61	60.58	59.25	57.83	57.22	57.66	60.99	58.15	58.77	58.56	58.21	62.1	123.65
80	50.87	52.66	54.04	55.44	57.92	55.57	57.53	58.4	55.4	54.39	57.94	59.53	58.69	59.55	58.91	58.33	57.36	59.68	61.14	60.61	60.33	60.52	60.49	124.25
100	54.86	55.79	56.28	56.16	55.43	58.6	57.4	57.79	57.12	58.95	58.95	60.74	60.17	59.5	60.35	60.03	59.7	60.67	60.02	60.41	60.26	59.54	59.68	124.61
130	54.1	55.9	58.49	57.46	59.2	60	58.63	59.78	57.80	58.41	58.59	59.91	60.1	60.81	60.53	61.18	60.78	60.26	60.74	60.68	60.2	59.24	57.03	124.92
160	55.76	56.68	59.03	59.59	59.18	60.19	60.54	59.46	60.54	60.49	60.76	61.12	60.75	61.6	61.31	62.34	62.35	62.55	61.27	61.03	60.28	58.64	57.52	125.81
200	57.94	58.03	61.07	60.38	60.71	61.46	60.74	60.56	62.52	63.18	62.87	61.53	61.44	61.68	62.05	61.69	61.76	61.11	61.55	60.74	60.35	58.8	55.63	126.22
250	57.41	58.76	59.6	59.43	59.72	60.35	61.7	60.8	60.43	60.53	61.04	62.09	62.57	62.71	62.72	62.63	62.04	61.29	60.74	59.35	58.01	56.06	52.93	125.67
320	56.59	59.07	61.36	61.52	60.89	61.11	61.33	62.02	62.31	62.61	62.87	63.04	63.09	62.97	62.6	61.66	60.53	59.58	60.14	58.04	55.91	53.81	50.66	125.79
400	57.58	59.38	61.69	61.11	61.39	62.23	62.69	61.8	62.23	62.38	62.86	63.46	63.62	62.98	62.43	61.76	60.94	59.23	57.92	56.16	54.07	51.57	48.06	125.74
500	57.46	60.91	62.36	61.95	62.83	63.5	63.84	63.36	63.38	63.34	63.6	64.19	64.04	63.32	62.69	61.84	60.72	58.76	57.04	54.48	51.89	49.25	45.51	126.29
630	58.49	62.55	64.43	63.83	64.08	64.13	64.86	64.25	64.87	65.22	65.56	65.91	65.37	64.55	63.13	61.73	60.37	57.91	56.05	53.67	50.88	47.34	43.15	127.37
800	59.86	63.56	65.21	65.13	65.14	65.2	65.82	65.45	65.64	65.58	65.98	66.17	65.89	65.2	63.92	62.42	60.51	57.87	54.99	52.32	49.87	48.37	41.37	128.06
1000	60.73	64.25	65.49	65.7	65.86	66.42	67.16	66.69	67.18	67.65	67.91	68.22	68.04	67.5	66.38	64.23	61.15	57.99	54.87	51.85	48.68	45.11	40.27	129.54
1300	60.44	64.23	65.62	65.99	66.27	66.85	67.9	67.78	68.34	69.05	69.45	69.62	69.66	69.49	68.22	65.76	62.43	59.07	55.13	52.1	48.67	44.65	39.55	130.73
1600	59.85	63.87	65.42	66.05	66.49	66.86	68.26	68.65	69.17	69.99	70.66	71.11	71.18	70.6	68.65	66.12	62.72	59.19	55.78	52.51	49.03	44.86	39.08	131.5
2000	58.17	62.36	64.09	64.74	65.18	65.81	67.4	68.88	69.16	69.81	70.6	71.13	71.15	70.39	68.88	66.19	62.62	58.95	55.8	52.36	48.54	43.97	37.71	131.24
2500	55.52	59.77	61.56	62.29	62.48	62.95	65.17	68.04	68.32	69.12	70.11	70.82	70.52	69.12	66.72	63.5	59.93	56.25	56.26	51.45	47.26	42.17	35.05	130.03
3200	50.03	54.67	57.17	57.64	57	57.66	60.46	65.26	65.55	66.54	67.38	67.16	66.14	64.29	61.78	58.72	55.23	51.39	52.51	48.37	43.67	37.77	29.29	126.29
4000	42.17	46.93	49.87	50.79	50.16	51.1	54.02	60.74	60.47	61.44	62.13	61.61	60.44	58.47	55.69	52.6	48.8	44.31	47.14	42.54	37.12	30.05	17.42	120.79
5000	32.35	37.01	40.7	41.91	41.18	42.21	45.6	54.33	53.77	54.78	55.48	54.98	53.6	51.19	47.81	43.74	39.19	34.17	39.34	33.91	27.18	14.74	0	113.62
6300	8.58	20.51	25.33	27.25	27.05	28.68	31.47	45.65	44.73	45.66	46.26	45.16	42.72	39.3	35.21	30.59	25.24	15.91	28.24	19.94	0	0	0	103.97
8000	0	0	0	0	0	0	0	31.14	29.98	30.45	29.66	26.04	21.43	15.97	0.57	0	0	0	0	0	0	0	0	87.48
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	69.99	73.16	74.84	75.01	75.29	75.78	76.71	77.34	77.68	78.26	78.85	79.22	79.11	78.42	77.11	75.33	73.42	72.1	71.12	70.05	69.07	67.9	67.47	140.43
PNL	81.8	85.22	86.95	87.38	87.68	88.17	89.49	90.13	90.38	91.06	91.82	92.27	91.97	91	89.51	87.23	84.39	81.54	78.74	75.77	72.57	69.44	65.66	88.81

50%L, 20MH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	356
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	578.61
m01	0.0055
pamb	14.3485
tamb	496.306
rhumid	75.85
winds1	0
nprc	1.169
nprb	1.212
ptc	16.7734
ptb	17.3904
wactc	1.802
wactb	9.463
ttc	1094.34
ttb	496.074
ptmix	17.2917
ttmix	591.776
mbgnd	0.485136
grsvisp	6518.04
badchan	(26)
bkgnd	350
escdate	02 Dec 96
esctime	21:22:09
DADSdate	02 Dec 96
DADStime	21:22:09
btchdate	02 Dec 96
btchtime	21:22:09

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 03:25:19 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance (ft)	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	62.02	63.28	64.32	65.16	65.84	66.42	66.93	67.41	67.91	68.46	69.11
100	62.78	63.86	64.85	65.78	66.64	67.44	68.18	68.86	69.49	70.07	70.8
130	65.31	65.46	65.75	66.07	66.36	66.55	66.69	66.84	67.08	67.49	68.12
160	65.61	66.52	67.23	67.78	68.22	68.59	68.93	69.3	69.74	70.3	71.01
200	65.9	66.59	67.19	67.73	68.22	68.7	69.19	69.73	70.33	71.01	71.81
250	67.03	67.86	68.67	69.46	70.23	71	71.75	72.5	73.24	73.98	74.72
320	67.06	68.27	69.24	70	70.57	70.99	71.33	71.69	72.12	72.65	73.36
400	65.47	66.84	68.24	69.52	70.47	70.97	71.27	71.63	72.2	72.96	73.87
500	66.22	67.66	68.86	69.99	70.95	71.61	72.09	72.5	73.01	73.8	74.86
630	65.86	67.74	69.13	70.16	70.91	71.45	71.87	72.29	72.81	73.5	74.45
800	65.55	67.62	69.08	70.05	70.73	71.25	71.72	72.26	72.94	73.78	74.74
1000	64.73	66.7	68.15	69.2	70.01	70.56	71.07	71.64	72.31	73.02	73.8
1300	64.15	65.85	67.35	68.51	69.29	69.82	70.4	70.82	71.44	71.98	72.47
1600	63.13	65.2	66.66	67.6	68.21	68.73	69.26	69.71	70.29	70.99	71.96
2000	62.55	64.61	65.85	66.63	67.22	67.78	68.39	68.94	69.42	69.91	70.7
2500	61.59	63.52	64.88	65.78	66.4	66.93	67.53	68.08	68.56	69.1	69.9
3200	60.75	62.99	64.32	65.26	65.87	66.27	66.99	67.34	67.76	68.54	69.34
4000	59.7	62.24	63.71	64.55	65	65.68	66.74	66.9	67.34	68.12	68.95
5000	58.69	61.49	62.9	63.63	64.13	65.08	66.35	66.9	67.19	67.95	69.05
6300	57.81	61.13	62.73	63.55	64.29	65.5	66.86	67.46	67.89	68.66	69.64
8000	57.2	61.43	63.38	64.18	64.83	66.12	67.86	68.39	68.66	69.5	70.82
10000	55.29	59.14	61.58	63.23	64.48	65.51	66.27	66.82	67.13	67.97	70
OASPL	77.4	78.92	80.1	81.02	81.72	82.31	82.89	83.37	83.91	84.6	85.47

distance (ft)	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	69.88	70.74	71.68	72.66	73.65	74.64	75.58	76.45	77.23	77.88	78.39	0	114.58
100	71.09	71.6	72.19	72.91	73.81	74.94	76.22	77.36	78.04	77.95	76.82	0	115.12
130	69.03	70.14	71.38	72.67	73.94	75.1	76.05	76.64	76.7	76.06	74.59	0	114.18
160	71.4	71.72	73.22	74.3	74.85	75.23	75.63	75.93	76.03	75.82	75.22	0	115.01
200	72.71	73.6	74.34	74.81	75.07	75.15	75.11	74.95	74.51	73.7	72.52	0	115.08
250	75.45	76.18	76.9	77.53	77.92	77.81	77.18	76.38	75.75	74.93	72.78	0	117.44
320	74.35	75.53	76.57	77.33	77.7	77.41	76.43	76.08	73.61	72.38	71.64	0	116.78
400	74.82	75.69	76.34	76.67	76.63	76.11	75.18	73.98	72.68	71.06	69.82	0	116.32
500	75.91	76.84	77.58	77.92	77.68	76.58	74.94	73.3	71.84	70.63	69.56	0	117.11
630	75.54	76.51	77.24	77.32	76.73	75.52	73.93	72.4	71.18	70.39	69.64	0	116.65
800	75.69	76.42	76.76	76.58	75.89	74.73	73.18	71.45	69.75	68.29	67.21	0	116.33
1000	74.79	75.58	76.32	76.46	75.34	73.37	71.81	70.56	69.35	68.01	66.93	0	115.62
1300	73.06	74.02	74.98	75.38	74.12	72.06	70.63	69.23	68.01	66.84	65.34	0	114.45
1600	72.81	73.45	74.36	75.14	74.05	71.42	69.78	68.17	66.99	65.8	64.17	0	113.8
2000	71.7	72.5	72.93	73.48	72.82	70.42	68.62	66.87	65.39	64.03	62.67	0	112.64
2500	70.81	71.25	71.86	72.22	71.19	69.01	67.13	65.29	63.85	62.68	61.39	0	111.55
3200	69.98	70.46	71.11	71.39	70.21	67.88	65.72	63.81	62.51	60.91	59.28	0	110.77
4000	69.67	69.72	70.01	70.28	68.99	66.73	64.29	62.08	60.48	58.69	56.78	0	110.01
5000	69.7	69.77	69.84	69.51	68.1	65.78	62.87	60.81	59.27	56.99	55.69	0	109.64
6300	70.32	70.39	70.42	69.73	67.85	65.33	62.43	60.18	58.05	55.57	54.4	0	110.03
8000	71.58	71.7	71.37	70.35	68.59	65.82	62.27	59.95	57.78	55.01	54.3	0	110.94
10000	69.97	70.26	70.61	70.11	68.24	64.73	60.46	57.79	55.61	53.24	52.41	0	109.82
OASPL	86.31	87.05	87.73	88.11	87.64	87.17	86.56	86.14	85.79	85.3	84.48	0	127.94

rdg	358
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	578.61
m01	0.0055
pamb	14.3485
tamb	496.306
rhumid	75.85
winds1	0
nprc	1.169
nprb	1.212
ptc	16.7734
ptb	17.3904
wactc	1.802
wactb	9.463
ttc	1094.34
ttb	496.074
ptmix	17.2917
ttmix	591.776
mixpnd	0.485136
grsvxp	6518.04
badchan	(26)
bkgnd	350
eacdate	02.Dec.96
eactime	21:22:09
DADSdate	02.Dec.96
DADStime	21:22:09
btchdate	02.Dec.96
btchtime	21:22:09

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 03:25:27 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	40.24	41.99	43.42	44.57	45.5	46.25	46.86	47.37	47.84	48.29	48.76	49.29	49.84	50.38	50.87	51.28	51.56	51.67	51.54	51.12	50.29	48.94	0	114.51
100	40.96	42.52	43.92	45.17	46.27	47.23	48.07	48.79	49.39	49.86	50.22	50.47	50.67	50.86	51.09	51.4	51.82	52.26	52.4	51.86	50.29	47.27	0	115
130	43.44	44.08	44.77	45.41	45.94	46.3	46.54	46.73	46.94	47.24	47.71	48.37	49.16	50	50.8	51.47	51.92	52.03	51.61	50.44	48.29	44.92	0	114
160	43.86	45.07	46.18	47.05	47.73	48.27	48.72	49.13	49.53	49.98	50.53	50.67	50.66	51.76	52.35	52.29	51.96	51.5	50.78	49.63	47.89	45.34	0	114.75
200	43.82	45.01	46.03	46.69	47.63	48.28	48.88	49.45	50.01	50.8	51.22	51.87	52.44	52.76	52.74	52.38	51.72	50.61	49.61	47.9	45.53	42.35	0	114.68
250	44.77	46.11	47.34	48.46	49.48	50.42	51.28	52.07	52.78	53.41	53.96	54.45	54.84	55.14	55.26	55.02	54.17	52.65	50.77	48.83	46.39	42.14	0	116.87
320	44.56	46.3	47.71	48.81	49.64	50.24	50.69	51.09	51.48	51.91	52.43	53.16	53.99	54.59	54.83	54.57	53.51	51.6	49.12	46.31	43.35	40.4	0	115.99
400	42.63	44.54	46.37	48	49.21	49.9	50.31	50.72	51.25	51.9	52.62	53.3	53.81	54.02	53.8	53.1	51.76	49.85	47.47	44.74	41.3	37.68	0	115.18
500	42.94	44.98	46.61	48.1	49.34	50.2	50.78	51.23	51.7	52.37	53.24	54	54.55	54.81	54.59	53.64	51.73	49.08	46.2	43.2	40.02	36.34	0	115.56
630	42.05	44.53	46.42	47.84	48.88	49.63	50.18	50.65	51.13	51.7	52.44	53.24	53.81	54.05	53.52	52.19	50.08	47.38	44.53	41.62	38.72	35.06	0	114.65
800	41.21	43.92	45.66	47.26	48.25	48.97	49.57	50.16	50.81	51.51	52.28	52.91	53.24	53.06	52.23	50.77	48.66	45.95	42.6	39.32	35.55	31.32	0	113.85
1000	39.82	42.46	44.45	45.94	47.06	47.84	48.48	49.09	49.72	50.29	50.85	51.52	51.89	52.08	51.55	49.61	46.64	43.86	41.08	37.95	34.12	29.6	0	112.62
1300	38.62	41.04	43.11	44.71	45.83	46.6	47.32	47.76	48.36	48.76	49.02	49.27	49.78	50.17	49.86	47.72	44.6	41.88	38.87	35.62	31.76	26.55	0	110.89
1600	36.92	39.73	41.79	43.2	44.18	44.95	45.63	46.12	46.65	47.21	47.93	48.42	48.58	48.9	48.95	46.94	43.18	40.14	36.81	33.44	29.35	23.73	0	109.59
2000	35.48	38.34	40.22	41.49	42.46	43.26	44.05	44.64	45.07	45.41	45.93	46.56	46.89	46.66	46.42	44.77	41.13	37.82	34.21	30.35	25.82	19.96	0	107.65
2500	33.31	36.1	38.15	39.59	40.62	41.43	42.2	42.79	43.24	43.61	44.13	44.63	44.53	44.44	43.94	41.67	38.35	34.81	30.86	26.76	22.03	8.34	0	105.49
3200	30.67	33.89	35.99	37.53	38.59	39.31	40.21	40.61	40.97	41.56	42.06	42.25	42.15	42.01	41.32	38.94	35.11	31.11	26.81	22.33	11.55	0	0	103.13
4000	26.87	30.51	32.89	34.45	35.45	36.47	37.69	37.94	38.31	38.85	39.3	39.53	38.91	38.31	37.48	34.77	30.74	26.11	20.13	-2.02	0	0	0	99.99
5000	20.62	25.79	28.29	29.84	30.95	32.34	33.91	34.52	34.7	35.22	35.9	35.91	35.04	34.03	32.36	29.29	24.74	18.12	0	0	0	0	0	95.94
6300	0	12.63	20.17	23.3	25.3	27.22	28.84	29.57	29.93	30.35	30.73	30.54	29.54	28.28	25.79	20.03	0	0	0	0	0	0	0	90.39
8000	0	0	0	0	-2.48	12.57	19.24	20.39	20.88	21.39	22.05	21.93	19.77	15.57	0	0	0	0	0	0	0	0	0	80.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	53.94	55.73	57.24	58.49	59.47	60.21	60.81	61.33	61.86	62.41	63.02	63.61	64.06	64.38	64.31	63.69	62.64	61.45	60.2	58.77	56.85	54.12	0	126.1
PNL	58.92	61.63	63.61	65.05	66.12	66.96	67.78	68.34	68.83	69.33	69.92	70.42	70.65	70.72	70.49	69.16	66.96	64.7	62.06	59.2	55.84	50.9	0	88.82

NASA Lewis Allison AST Jet Noise Test 1996

rdg	357
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
ambxb	78.39
scale	4
vid	819.77
m01	0.00398
pamb	14.3487
tamb	496.264
rhumid	74.21
winds1	0
nprc	1.391
nprb	1.442
ptc	19.959
ptb	20.6908
wactc	2.784
wactb	13.451
ttc	1162.89
ttb	495.891
ptmix	20.5853
ttmix	610.103
mixpnd	0.676934
grsvixp	13309
badchan	(26)
bkgnd	350
escdate	02.Dec.96
esctime	21:35:48
DADSdate	02.Dec.96
DADStime	21:35:48
btchdate	02.Dec.96
btchtime	21:35:48

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 03:28:25 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	72.31	73.07	73.8	74.48	75.15	75.8	76.45	77.11	77.79	78.5	79.24
100	74.43	75.26	75.87	76.32	76.67	76.96	77.26	77.61	78.07	78.69	79.53
130	74.79	75.57	76.09	76.41	76.59	76.69	76.78	76.92	77.16	77.56	78.18
160	75.88	76.69	77.37	77.96	78.47	78.92	79.35	79.76	80.18	80.63	81.15
200	77.07	77.83	78.41	78.84	79.18	79.47	79.75	80.06	80.44	80.92	81.56
250	76.89	77.58	78.06	78.47	78.88	79.34	79.74	79.96	80.53	81.79	82.46
320	77.56	78.32	78.96	79.47	79.87	80.15	80.4	80.66	81.06	81.57	82.26
400	76.49	77.24	78.03	78.84	79.59	80.24	80.82	81.35	81.87	82.48	83.29
500	76.57	77.4	78.11	78.75	79.33	79.85	80.29	80.79	81.41	82.15	83
630	76.62	77.75	78.54	79.1	79.53	80.04	80.77	81.18	81.75	82.52	83.24
800	76.04	77.26	78.4	79.37	80.04	80.47	81.01	81.64	82.25	82.83	83.45
1000	76.07	77.53	78.6	79.36	79.86	80.29	80.84	81.29	81.83	82.5	83.21
1300	75.8	77.41	78.58	79.48	79.94	80.42	81.18	81.61	81.99	82.58	83.36
1600	75.63	77.49	78.52	79.23	79.73	80.16	80.61	81.16	82.01	82.88	83.65
2000	74.99	76.95	78.21	78.95	79.47	79.95	80.48	81.03	81.7	82.45	83.29
2500	74.11	76.06	77.29	78.08	78.66	79.23	79.84	80.32	80.84	81.53	82.43
3200	73.14	75.27	76.55	77.29	77.77	78.18	78.84	79.43	80.01	80.59	81.55
4000	71.91	74.22	75.37	76.04	76.41	77.07	77.96	78.02	78.46	79.37	80.46
5000	70.64	73.22	74.22	74.49	74.56	75.56	76.98	77.07	77.25	78.11	79.23
6300	69.4	72.19	73.08	73.25	73.42	74.66	76.18	76.37	76.65	77.45	78.26
8000	68.04	71.15	72.34	72.56	72.57	73.84	75.92	75.49	75.7	76.79	78.04
10000	65.1	67.97	69.34	70.12	70.78	72.31	73.85	73	73.2	74.13	75.76
OASPL	88.36	89.63	90.52	91.16	91.63	92.13	92.72	93.11	93.63	94.33	95.13

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.04	80.93	81.97	83.2	84.67	86.41	88.34	90.19	91.65	92.43	92.22	0	127.07
100	80.61	81.69	83.29	84.76	86.22	87.6	88.85	89.68	90.64	91.08	91.15	0	127.06
130	79.05	80.18	81.54	83.09	84.82	86.69	88.56	90.06	90.82	90.48	88.7	0	126.35
160	81.71	82.19	82.82	83.74	84.94	86.46	88.1	89.43	90.05	89.63	88.78	0	126.62
200	82.38	83.34	84.41	85.51	86.58	87.56	88.36	88.72	88.32	87.28	86	0	126.65
250	83.33	84.45	85.67	86.66	87.88	88.61	88.65	88.5	87.73	86.47	84.49	0	127.1
320	83.18	84.16	85.05	85.9	86.86	87.64	87.86	87.21	85.87	83.84	82.35	0	126.42
400	84.27	85.09	85.54	85.95	86.3	86.54	86.55	85.19	83.6	81.89	80.07	0	126.14
500	83.81	84.82	85.57	85.93	86.2	86.1	85.6	84.59	83.24	81.59	79.55	0	125.8
630	83.82	84.57	85.38	85.83	85.86	85.32	84.54	83.38	82.11	80.4	78.71	0	125.59
800	84.09	84.71	85.41	85.72	85.5	84.9	83.82	82.5	81.1	79.67	78	0	125.57
1000	83.82	84.34	84.84	84.87	84.62	84.22	83.37	82.1	80.49	78.72	77.11	0	125.14
1300	84.27	84.94	85.58	85.43	84.31	83.6	82.74	81.53	79.97	78.11	76.06	0	125.28
1600	84.42	85.33	86.6	86.28	83.94	83.17	82.28	80.97	79.33	77.51	75.66	0	125.42
2000	84.28	85.36	87.07	86.65	83.16	82.43	81.36	79.95	78.5	76.8	75.03	0	125.26
2500	83.49	84.72	86.48	86.42	83.25	82.07	80.94	79.24	77.48	75.83	74.09	0	124.65
3200	82.67	83.63	85.46	85.59	82.7	81.23	80.01	78.24	76.59	74.89	73.05	0	123.75
4000	81.36	81.81	82.82	83.06	81.21	79.77	78.09	76.38	74.82	72.74	71.08	0	122.04
5000	79.87	79.95	80.51	80.45	78.76	77.39	75.89	74.06	72.34	69.99	67.74	0	120.26
6300	78.74	78.81	78.94	78.49	76.86	75.52	73.86	72.03	69.92	66.94	65.06	0	119.02
8000	78.56	78.23	77.69	78.87	75.7	74.61	72.63	70.49	68.26	65.14	63.84	0	118.24
10000	75.7	75.54	75.45	74.91	73.48	71.76	69.42	66.84	64.74	62.33	60.98	0	115.79
OASPL	95.94	96.74	97.77	98.15	97.91	98.26	98.64	98.85	98.89	98.56	97.69	0	138.55

NASA Lewis Allison AST Jet Noise Test 1996

rdg	357
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	819.77
m01	0.00396
pamb	14.3487
tamb	496.264
rhumid	74.21
winds1	0
nprc	1.391
nprb	1.442
ptc	19.959
ptb	20.6906
wactc	2.784
wactb	13.451
ttc	1162.89
ttb	495.691
ptmix	20.5653
ttmix	610.103
mixpnd	0.676934
gravixp	13309
badchan	(26)
bkgnd	350
escdate	02.Dec.96
esctime	21:35:48
DADSdate	02.Dec.96
DADStime	21:35:48
btchdate	02.Dec.96
btchtime	21:35:48

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 03:28:31 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	50.52	51.78	52.9	53.9	54.8	55.83	56.38	57.07	57.71	58.32	58.89	59.45
100	52.61	53.92	54.94	55.7	56.29	56.75	57.15	57.53	57.96	58.48	59.15	60
130	52.92	54.19	55.11	55.75	56.17	56.45	56.64	56.8	57.01	57.31	57.78	58.39
160	53.93	55.23	56.32	57.22	57.96	58.61	59.13	59.58	59.98	60.31	60.66	60.98
200	54.99	56.26	57.25	58.01	58.6	59.06	59.44	59.79	60.13	60.51	60.98	61.54
250	54.83	55.82	56.73	57.47	58.13	58.77	59.27	59.53	60.07	61.21	61.7	62.33
320	55.06	56.35	57.42	58.28	58.93	59.4	59.75	60.07	60.41	60.82	61.34	61.99
400	53.63	54.93	56.17	57.32	58.34	59.18	59.88	60.44	60.92	61.42	62.04	62.76
500	53.29	54.69	55.87	56.87	57.73	58.45	59	59.53	60.11	60.73	61.39	61.92
630	52.8	54.54	55.83	56.78	57.51	58.22	59.08	59.5	60.06	60.71	61.23	61.52
800	51.69	53.55	55.21	56.58	57.56	58.2	58.87	59.54	60.11	60.56	60.97	61.3
1000	51.15	53.28	54.89	56.07	56.9	57.55	58.24	58.74	59.24	59.76	60.24	60.63
1300	50.26	52.6	54.34	55.66	56.48	57.19	58.09	58.56	58.9	59.35	59.9	60.47
1600	49.43	52.03	53.66	54.84	55.69	56.38	56.96	57.55	58.36	59.08	59.6	60.02
2000	47.91	50.67	52.57	53.81	54.7	55.44	56.13	56.73	57.34	57.93	58.51	59.14
2500	45.83	48.65	50.57	51.9	52.89	53.74	54.51	55.06	55.51	56.04	56.66	57.3
3200	43.07	46.17	48.22	49.56	50.5	51.23	52.08	52.74	53.25	53.64	54.28	54.95
4000	39.09	42.52	44.57	45.97	46.89	47.89	48.94	49.09	49.47	50.16	50.88	51.29
5000	33.65	37.58	39.64	40.77	41.46	42.89	44.58	44.77	44.88	45.46	46.14	46.18
6300	25.45	30.28	32.5	33.73	34.74	36.51	38.3	38.64	38.85	39.31	39.48	39.12
8000	0	15.93	21.44	23.75	24.93	27.05	29.83	29.63	29.69	30.37	30.89	30.33
10000	0	0	0	0	0	0	-1.67	0	0	-2.29	0.98	0
OASPL	64.63	66.19	67.43	68.43	69.19	69.83	70.42	70.86	71.36	71.92	72.45	72.96
PNL	71.19	73.58	75.28	76.5	77.39	78.19	78.96	79.45	79.93	80.49	81.07	81.61

distance: (	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2815.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.03	60.68	61.42	62.3	63.34	64.44	65.29	65.55	64.84	62.77	0	126.99
100	60.95	61.98	62.94	63.61	64.49	64.89	64.92	64.47	63.42	61.61	0	126.93
130	59.2	60.15	61.22	62.36	63.52	64.53	65.02	64.56	62.71	59.03	0	126.15
160	61.13	61.36	61.78	62.39	63.18	63.97	64.28	63.66	61.91	58.91	0	126.32
200	62.18	62.83	63.43	63.89	64.14	64.08	63.39	61.72	59.11	55.84	0	126.23
250	63.12	63.92	64.59	64.99	64.98	64.33	62.91	60.83	57.94	53.86	0	126.49
320	62.64	63.1	63.41	63.73	63.74	63.03	61.26	58.35	54.82	51.13	0	125.58
400	63.22	63.22	63.07	62.77	62.2	61.25	58.72	55.7	52.18	47.92	0	124.96
500	62.37	62.86	62.65	62.22	61.27	59.75	57.48	54.58	50.97	46.31	0	124.2
630	61.87	62.18	62.03	61.12	59.88	58.02	55.52	52.57	48.78	44.22	0	123.53
800	61.52	61.7	61.36	60.38	58.82	56.59	53.85	50.67	46.93	42.16	0	123.02
1000	60.62	60.59	59.95	58.89	57.49	55.4	52.82	49.09	44.83	39.81	0	122.06
1300	60.69	60.76	59.9	57.92	56.15	53.99	51.16	47.53	42.97	37.24	0	121.68
1600	60.45	61.13	60.05	56.79	54.92	52.64	49.58	45.73	40.99	35.11	0	121.19
2000	59.71	60.77	59.55	55.09	53.15	50.59	47.29	43.44	38.57	32.32	0	120.25
2500	57.98	59.06	58.14	53.86	51.36	48.59	44.82	40.39	35.15	28.32	0	118.52
3200	55.33	56.38	55.5	51.38	48.43	45.36	41.26	36.51	30.63	22.73	0	115.99
4000	51.05	51.2	50.34	46.98	43.81	39.95	35.46	30.27	22.78	-2.57	0	111.88
5000	45.39	44.87	43.53	40.16	36.59	32.4	27.11	19.5	0	0	0	106.51
6300	38.22	37.09	34.93	31.08	26.78	20.33	0	0	0	0	0	99.57
8000	28.49	25.93	22.26	15.6	0	0	0	0	0	0	0	90.07
10000	0	0	0	0	0	0	0	0	0	0	0	65.29
OASPL	73.47	73.97	74.03	73.82	73.78	73.59	73.06	72.07	70.37	67.67	0	136.76
PNL	82.07	82.75	82.18	79.76	78.55	77.32	75.36	72.83	69.6	65.4	0	80.5

NASA Lewis Allison AST Jet Noise Test 1996

rdg	358
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	959.15
m01	0.00311
pamb	14.3477
tamb	495.178
rhumid	78.28
winds1	0
nprc	1.544
nprb	1.616
ptc	22.1526
ptb	23.1859
wactc	3.215
wactb	15.763
ttc	1306.34
ttb	496.605
ptmix	23.0109
ttmix	635.78
mixpnd	0.77587
grsvixp	18202.7
badchan	(26)
bkgnd	350
escdate	02.Dec.96
esctime	21:47:59
DADSdate	02.Dec.96
DADStime	21:47:59
btchdate	02.Dec.96
btchtime	21:47:59

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 03:31:19 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance (i	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	77.1	77.77	78.38	78.96	79.51	80.06	80.61	81.19	81.8	82.47	83.22
100	79.21	80.03	80.66	81.2	81.63	82	82.37	82.75	83.19	83.73	84.39
130	81	81.63	81.87	81.82	81.61	81.32	81.08	80.98	81.11	81.59	82.5
160	82.06	82.54	82.88	83.09	83.31	83.57	83.91	84.34	84.66	85.49	86.2
200	81.35	82.15	82.81	83.37	83.87	84.33	84.78	85.2	85.59	86.03	86.8
250	81.65	82.12	82.55	82.95	83.35	83.78	84.27	84.83	85.5	86.27	87.18
320	81.85	82.53	83.08	83.47	83.82	84.15	84.51	84.92	85.41	86.01	86.74
400	81.26	81.98	82.64	83.24	83.8	84.32	84.87	85.49	86.17	86.9	87.69
500	81.34	82.15	82.83	83.38	83.79	84.15	84.67	85.33	85.89	86.27	86.92
630	81.24	82.34	83.17	83.78	84.24	84.61	84.98	85.34	85.78	86.34	87.08
800	81.57	82.64	83.34	83.87	84.37	84.93	85.54	86.11	86.53	86.98	87.76
1000	81.41	82.59	83.49	84.16	84.66	85.07	85.56	86.09	86.64	87.15	87.71
1300	81.37	82.88	83.86	84.5	84.84	85.2	85.71	86.41	87.07	87.59	88.05
1600	81.22	83.05	84.04	84.56	84.99	85.51	86.12	86.89	87.45	87.81	88.41
2000	80.85	82.99	84.1	84.56	84.94	85.5	86.23	86.95	87.51	87.88	88.55
2500	80	82.12	83.29	83.96	84.51	85.17	85.88	86.67	87.22	87.74	88.52
3200	79.36	81.67	82.84	83.44	83.87	84.47	85.23	85.95	86.58	87.21	88.06
4000	78.12	80.43	81.55	82.13	82.54	83.21	84.15	84.78	85.37	86.19	87.21
5000	76.56	79.31	80.37	80.8	80.83	81.4	82.72	83.55	84.05	84.54	85.38
6300	75.05	77.76	78.89	79.22	79.35	80.24	81.65	82.56	83	83.45	83.76
8000	73.74	76.47	77.73	78.26	78.46	79.26	80.67	81.69	82.11	82.4	82.72
10000	70.36	72.96	74.71	75.91	76.67	77.23	77.86	78.77	79.21	79.31	79.6
OASPL	93.61	94.88	95.69	96.2	96.59	97.06	97.68	98.27	98.81	99.34	100.04

distance (i	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	84.05	85.05	86.25	87.73	89.55	91.76	94.25	96.65	98.54	99.53	99.22	0	133.23
100	85.23	86.28	87.57	89.13	91	93.21	95.62	97.81	99.32	99.67	98.39	0	133.96
130	83.91	85.72	87.8	90.04	92.29	94.42	96.3	97.76	98.63	98.72	97.87	0	133.82
160	87.03	87.99	89.14	90.49	92.04	93.77	95.49	96.57	96.56	96.5	96.21	0	133.17
200	87.34	88.25	89.36	90.66	92.17	93.89	95.27	95.64	94.91	93.7	92.96	0	132.56
250	88.22	89.34	90.47	91.55	92.51	93.29	93.8	93.89	93.39	92.12	90.02	0	132.02
320	87.64	88.66	89.77	90.91	92.05	93.14	93.59	93.4	92.42	90.46	88.7	0	131.58
400	88.53	89.45	90.45	91.3	91.96	92.43	92.32	91.13	89.4	87.6	86.13	0	131.19
500	88.04	89.27	90.22	91.03	91.41	91.59	91.37	90.41	88.78	86.97	84.85	0	130.71
630	88.02	89.05	90.03	90.8	91.04	90.73	90.16	88.94	87.22	85.33	83.71	0	130.33
800	88.46	89.16	89.97	90.58	90.61	90.27	89.62	88.5	86.68	84.78	83.03	0	130.36
1000	88.54	89.68	90.33	90.3	90.06	89.93	89.26	88.14	86.54	84.69	82.97	0	130.33
1300	88.88	89.9	90.58	90.19	89.63	89.05	88.33	87.25	85.93	84.41	82.61	0	130.3
1600	89.53	91.04	91.75	90.88	89.3	88.79	88.27	87.29	85.94	84.33	82.56	0	130.75
2000	89.77	91.11	92.36	91.61	88.77	88.33	87.88	86.8	85.8	84.17	82.57	0	130.87
2500	89.94	91.64	93.01	91.9	88.7	87.91	87.39	86.32	85.27	84.13	82.54	0	130.9
3200	89.55	91.53	92.85	91.72	88.58	87.37	86.86	85.72	84.86	83.95	82.73	0	130.54
4000	88.48	90.09	91.27	90.71	88.06	86.48	85.45	84.4	83.52	82.39	81.51	0	129.35
5000	86.59	88.04	88.84	88.39	86.42	85.07	83.6	82.13	80.94	79.36	78.64	0	127.44
6300	84.61	85.92	86.59	85.75	83.8	82.67	81.34	79.48	77.08	74.68	74.45	0	125.52
8000	83.28	83.88	84.12	83.49	81.88	81.2	79.95	77.61	74.55	71.14	70.75	0	123.99
10000	79.15	79.73	80.49	80.51	78.9	77.95	76.44	73.92	70.94	66.97	66.55	0	120.8
OASPL	101.05	102.33	103.39	103.57	103.51	104.21	105.03	105.68	106	105.9	105.02	0	144.41

NASA Lewis Allison AST Jet Noise Test 1996

rdg	358
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	MD20
nozbid	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	959.15
m01	0.00311
pamb	14.3477
tamb	495.178
rhumid	78.28
winds1	0
nprc	1.544
nprb	1.818
ptc	22.1528
ptb	23.1859
wactc	3.215
wactb	15.763
ttc	1308.34
ttb	498.605
ptmix	23.0109
ttmix	835.78
mixpnd	0.77587
grsvisp	18202.7
badchan	{26}
bkgnd	350
escdate	02.Dec.96
esctime	21:47:59
DADSdate	02.Dec.96
DADStime	21:47:59
btchdate	02.Dec.96
btchtime	21:47:59

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 03:31:26 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1631.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	55.32	58.47	57.48	58.38	59.17	59.88	60.54	61.15	61.73	62.3	62.87	63.47	64.14	64.95	65.95	67.18	68.69	70.35	71.75	72.43	71.85	69.77	0	133.14
100	57.38	58.69	59.74	60.58	61.25	61.8	62.26	62.68	63.08	63.52	64.02	64.62	65.34	66.23	67.31	68.59	70.09	71.67	72.65	73.15	72.01	68.85	0	133.83
130	59.12	60.24	60.88	61.16	61.18	61.08	60.93	60.86	60.96	61.34	62.08	63.25	64.74	66.42	68.16	69.82	71.25	72.28	72.73	72.37	70.95	68.2	0	133.61
160	60.1	61.08	61.81	62.36	62.82	63.25	63.69	64.18	64.65	65.17	65.71	66.29	66.94	67.68	68.54	69.48	70.51	71.38	71.42	70.17	68.58	66.33	0	132.86
200	59.28	60.59	61.65	62.54	63.26	63.92	64.47	64.92	65.28	65.82	66.01	66.5	67.09	67.79	68.59	69.49	70.48	70.99	70.31	68.31	65.54	62.81	0	132.13
250	59.39	60.38	61.22	61.95	62.61	63.22	63.81	64.41	65.03	65.7	66.43	67.22	68.01	68.72	69.29	69.63	69.66	69.28	68.3	66.49	63.59	59.37	0	131.4
320	59.34	60.56	61.51	62.27	62.88	63.4	63.88	64.31	64.76	65.25	65.81	66.45	67.12	67.8	68.42	68.92	69.24	68.75	67.45	65.11	61.44	57.5	0	130.7
400	58.41	59.68	60.77	61.73	62.55	63.26	63.93	64.58	65.22	65.84	66.44	67.02	67.58	68.14	68.45	68.44	68.11	67.02	64.67	61.51	57.9	54.02	0	129.99
500	58.06	59.43	60.57	61.49	62.18	62.74	63.38	64.07	64.59	64.86	65.31	66.15	67.02	67.51	67.75	67.42	66.76	65.53	63.32	60.15	56.38	51.83	0	129.07
630	57.43	59.14	60.48	61.48	62.21	62.79	63.27	63.89	64.09	64.53	65.08	65.71	66.35	66.83	67	66.51	65.3	63.64	61.06	57.7	53.66	49.18	0	128.23
800	57.22	58.92	60.14	61.08	61.88	62.66	63.39	64.01	64.39	64.71	65.27	65.68	65.96	66.25	66.22	65.48	64.19	62.39	59.85	58.24	52.03	47.16	0	127.75
1000	56.5	58.35	59.79	60.88	61.7	62.34	62.96	63.53	64.04	64.41	64.74	65.25	65.97	66.09	65.38	64.34	63.18	61.28	58.63	55.11	50.76	45.66	0	127.19
1300	55.85	58.06	59.6	60.7	61.38	61.87	62.61	63.36	63.96	64.35	64.58	64.88	65.64	65.72	64.65	63.24	61.8	59.57	56.66	53.49	49.28	43.77	0	126.64
1600	55.02	57.59	59.16	60.16	60.95	61.7	62.45	63.28	63.8	64.01	64.36	65.13	66.16	66.27	64.64	62.17	60.53	58.62	55.89	52.32	47.81	41.99	0	126.47
2000	53.78	56.71	58.45	59.42	60.17	60.99	61.88	62.64	63.16	63.37	63.76	64.61	65.45	66.08	64.52	60.72	59.05	57.08	54.13	50.52	45.88	39.79	0	125.81
2500	51.7	54.89	56.56	57.78	58.73	59.67	60.56	61.4	61.9	62.25	62.74	63.74	64.88	65.56	63.59	59.29	57.21	55.05	51.91	48.17	43.43	36.75	0	124.73
3200	49.31	52.55	54.51	55.73	56.61	57.52	58.48	59.26	59.81	60.23	60.76	61.81	63.18	63.73	61.62	57.22	54.58	52.01	48.68	44.73	39.7	32.51	0	122.72
4000	45.31	48.75	50.79	52.09	53.03	54.04	55.16	56.85	58.4	57.01	57.66	58.43	59.37	59.65	57.94	53.84	50.5	47.26	43.44	38.89	32.81	24.59	0	119.09
5000	39.59	43.74	45.86	46.87	47.51	48.73	50.39	51.23	51.85	51.92	52.33	52.92	53.56	53.3	51.44	47.76	44.29	40.1	35.22	29.63	21.12	0	0	113.47
6300	31.38	35.82	38.33	39.72	40.67	42.11	43.64	44.85	45.21	45.33	45.08	45.17	45.49	44.82	42.27	38.15	34.13	29.24	22.14	-2.53	0	0	0	105.92
8000	17.27	24.59	28.01	30.09	31.28	32.81	34.78	35.99	36.19	36.04	35.69	35.29	34.5	32.95	29.88	24.91	19.26	-2.85	0	0	0	0	0	95.94
10000	0	0	0	0	5.42	13.14	17.74	19.72	19.83	19.01	17.52	14.82	11.25	0	0	0	0	0	0	0	0	0	0	77.3
OASPL	69.72	71.22	72.36	73.22	73.9	74.51	75.1	75.68	76.17	76.59	77.09	77.75	78.52	79.11	79.27	79.38	79.76	80.06	79.97	79.26	77.8	75.05	0	142.64
PNL	78.87	79.31	80.91	81.98	82.81	83.63	84.45	85.18	85.68	86.06	86.54	87.35	88.26	88.83	87.77	85.52	84.64	83.76	82.33	80.03	77.24	73.26	0	86.55

NASA Lewis Allison AST Jet Noise Test 1996

rdg	359
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1002.79
m01	0.00322
pamb	14.3477
tamb	495.414
rhumid	79.69
winds1	0
nprc	1.743
nprb	1.824
ptc	25.008
ptb	26.1702
wacic	3.451
wactb	18.113
ttc	1402.71
ttb	501.685
ptmix	25.9842
ttmix	645.86
mixpnd	0.804803
grsvixp	21824.2
badchan	(26)
bkgnd	350
escdate	02.Dec.96
esctime	21:56:25
DADSdate	02.Dec.96
DADStime	21:56:25
btchdate	02.Dec.96
btchtime	21:56:25

**Scenario: 150 foot arc; 77F, 70%; Full scale: Third-octave SPL
Processing date: Wed Aug 20 03:34:30 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.57	81.12	81.62	82.09	82.55	83.03	83.54	84.1	84.73	85.44	86.26	87.21	88.34	89.71	91.38	93.4	95.81	98.49	101.06	103.06	104.14	103.82	0	137.54
100	84.06	84.88	85.44	85.81	86.04	86.21	86.37	86.58	86.91	87.4	88.13	89.12	90.39	91.94	93.75	95.83	98.16	100.59	102.72	104.14	104.43	103.18	0	136.72
130	85.21	85.57	85.73	85.72	85.63	85.52	85.46	85.53	85.78	86.3	87.14	88.35	89.9	91.76	93.91	96.3	98.91	101.55	103.81	105.24	105.39	103.82	0	138.5
160	86.42	87.08	87.44	87.58	87.58	87.51	87.47	87.52	87.75	88.25	89.08	90.29	91.81	93.55	95.41	97.32	99.17	100.87	102.33	103.47	104.16	104.38	0	139.06
200	86.22	86.57	86.84	87.07	87.29	87.56	87.89	88.29	88.8	89.41	90.17	91.11	92.26	93.61	95.13	96.88	98.07	99.15	99.84	100.06	99.98	99.78	0	137.03
250	85.34	85.66	85.97	86.32	86.74	87.25	87.85	88.52	89.23	90.03	90.96	92.04	93.27	94.81	96.04	97.52	99.07	100.17	100.15	99.47	98.81	97.64	0	137.28
320	85.73	86.31	86.76	87.1	87.38	87.64	87.93	88.3	88.78	89.44	90.31	91.43	92.75	94.16	95.63	96.92	97.88	98.35	98.21	97.37	96	94.51	0	136.06
400	84.82	85.53	86.24	86.83	87.59	88.19	88.76	89.4	90.18	91.06	91.94	92.76	93.55	94.5	95.51	96.34	97.64	97.98	96.17	94.17	92.73	91.58	0	135.71
500	85.22	85.89	86.46	86.96	87.41	87.85	88.3	88.8	89.35	89.98	90.71	91.66	92.97	94.38	95.47	96.09	96.47	96.1	95.09	93.73	92.13	90.26	0	134.98
630	85.27	85.92	86.44	86.93	87.54	88.11	88.5	89.03	89.48	90.41	91.1	92.19	93	93.93	94.82	95.1	95.42	94.71	93.13	91.48	89.78	88.25	0	134.37
800	85.7	86.43	87.01	87.49	87.93	88.36	88.81	89.26	89.86	90.74	91.69	92.48	93.12	93.86	94.33	94.69	94.68	93.89	92.53	91.03	89.16	87.35	0	134.25
1000	85.84	86.71	87.31	87.74	88.07	88.38	88.79	89.33	90.02	90.83	91.72	92.59	93.29	93.9	94.35	94.27	93.83	93.04	91.82	90.45	88.96	87.18	0	134.1
1300	85.8	86.65	87.57	88.3	88.51	88.68	89.05	89.6	90.41	91.13	91.93	92.9	93.92	94.3	93.83	93.37	93.25	92.58	91.27	89.9	88.51	86.73	0	134.09
1600	85.99	87.44	88.27	88.7	88.94	89.25	89.7	90.17	90.81	91.79	92.85	94.39	95.68	95.49	94.11	93.41	93.27	92.72	91.57	90.33	88.97	87.34	0	134.85
2000	85.96	87.66	88.65	89.23	89.65	90.09	90.59	91.21	91.93	92.81	94.12	95.73	97.45	97.09	94.22	93.35	93.09	92.52	91.72	90.85	89.8	88.39	0	135.77
2500	85.75	87.78	88.94	89.55	89.91	90.26	90.68	91.22	92.06	93.29	95	97.19	99.27	98.82	95.12	93.33	92.88	92.83	92.11	91.54	90.69	89.19	0	136.69
3200	85.92	88.16	88.33	89.94	90.22	90.49	91.13	91.84	92.83	94.25	96.25	98.86	100.94	100.02	96.44	94.04	93.1	92.85	92.03	91.55	90.92	89.75	0	137.77
4000	86.22	88.56	89.39	89.84	89.97	90.41	91.06	91.81	92.95	94.65	96.9	99.56	101.36	100.41	97.16	94.46	93.07	92.06	90.88	90.25	89.33	88.06	0	138.1
5000	85.69	88.59	89.39	89.41	89.31	89.87	90.68	91.38	92.41	94.24	96.72	99.14	100.59	99.66	96.59	94.03	92.64	91.34	89.88	88.34	86.87	85.32	0	137.52
6300	85.8	88.63	89.29	89.41	89.26	89.88	90.83	91.56	92.42	93.96	95.82	98.16	99.75	98.96	98	93.13	91.74	90.5	88.56	86.66	84.81	83.61	0	136.87
8000	85.59	88.09	88.95	89.38	89.46	90.1	91.03	91.49	92.24	93.6	95.45	97.56	98.64	97.91	95.01	92.3	91.18	89.78	87.36	85.3	83.15	82.33	0	136.24
10000	82.64	85.09	86.21	87.36	88.06	88.72	89.23	89.41	89.95	91.11	92.75	94.48	96.03	95.46	93.03	90.32	88.8	86.78	83.87	82.32	80.37	79.5	0	133.75
OASPL	98.83	100.25	100.98	101.41	101.87	102.07	102.6	103.13	103.87	105.01	106.53	108.43	109.97	109.72	108.47	108.42	109.23	110.13	110.9	111.59	111.73	110.92	0	150.13

NASA Lewis Allison AST Jet Noise Test 1996

rdg	359
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
ngbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1002.79
m01	0.00322
pamb	14.3477
tamb	495.414
rhumid	79.69
winds1	0
nprc	1.743
nprb	1.824
ptc	25.008
ptb	26.1702
wactc	3.451
wactb	18.113
ttc	1402.71
ttb	501.685
ptmix	25.9842
ttmix	645.88
mixpnd	0.604803
gravixp	21624.2
badchan	(26)
bkgnd	350
escdate	02.Dec.96
esctime	21:56:25
DADSdate	02.Dec.96
DADStime	21:56:25
btchdate	02.Dec.96
btchtime	21:56:25

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 03:34:38 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1656.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	58.79	59.82	60.72	61.51	62.21	62.85	63.46	64.06	64.65	65.27	65.91	66.62	67.44	68.41	69.6	71.03	72.74	74.59	76.15	76.96	76.56	74.37	0	137.45
100	62.24	63.54	64.5	65.19	65.67	66	66.26	66.51	66.8	67.2	67.75	68.5	69.46	70.6	71.93	73.42	75.05	76.64	77.76	77.97	76.77	73.63	0	138.58
130	63.33	64.19	64.75	65.06	65.21	65.27	65.32	65.41	65.64	66.05	66.72	67.69	68.92	70.38	72.03	73.63	75.74	77.53	78.78	78.99	77.63	74.15	0	139.27
160	64.46	65.62	66.39	66.65	67.09	67.2	67.25	67.34	67.54	67.93	68.59	69.56	70.76	72.09	73.46	74.78	75.9	76.74	77.18	77.07	76.25	74.5	0	138.71
200	64.14	65	65.68	66.23	66.71	67.15	67.58	68.02	68.48	69	69.58	70.27	71.1	72.04	73.06	73.99	74.66	74.87	74.52	73.49	71.83	69.63	0	136.57
250	63.09	63.92	64.64	65.32	65.99	66.68	67.39	68.09	68.77	69.46	70.21	71.05	71.94	72.87	73.78	74.63	75.44	75.64	74.55	72.57	70.28	67	0	136.61
320	63.23	64.34	65.22	65.9	66.46	66.89	67.28	67.68	68.13	68.68	69.37	70.23	71.21	72.21	73.13	73.78	73.97	73.51	72.25	70.05	66.98	63.3	0	135.16
400	61.95	63.22	64.37	65.42	66.34	67.14	67.81	68.49	69.24	70	70.7	71.25	71.69	72.19	72.64	72.81	73.31	72.68	69.72	68.28	63.01	59.47	0	134.48
500	61.94	63.19	64.22	65.09	65.81	66.44	67.01	67.54	68.05	68.56	69.1	69.8	70.72	71.68	72.18	72.1	71.64	70.27	68.02	65.11	61.53	57.01	0	133.3
630	61.47	62.72	63.73	64.61	65.51	66.29	66.8	67.37	67.78	68.59	69.09	69.86	70.29	70.73	71.04	70.58	69.99	68.19	65.27	61.95	58.11	53.7	0	132.24
800	61.34	62.71	63.8	64.7	65.44	66.09	66.66	67.16	67.73	68.47	69.2	69.66	69.92	70.14	69.98	69.56	68.61	66.66	63.88	60.61	56.44	51.46	0	131.61
1000	60.92	62.47	63.62	64.47	65.12	65.85	66.19	66.77	67.42	68.1	68.76	69.31	69.58	69.65	69.41	68.54	67.1	65.07	62.32	59.04	55.09	49.91	0	130.95
1300	60.06	61.82	63.31	64.49	65.03	65.45	65.95	66.55	67.31	67.89	68.45	69.06	69.65	69.47	68.1	66.96	65.79	63.82	60.9	57.48	53.39	47.87	0	130.4
1600	59.77	61.97	63.39	64.29	64.69	65.44	66.04	66.56	67.14	67.98	68.79	69.96	70.78	70.01	67.9	66.29	65.01	63.06	60.17	58.72	52.43	46.73	0	130.54
2000	58.86	61.36	63	64.06	64.87	65.57	66.22	66.89	67.56	69.28	69.33	70.56	71.78	70.77	67.11	65.27	63.8	61.74	59.04	55.75	51.48	45.56	0	130.71
2500	57.45	60.36	62.21	63.34	64.1	64.73	65.32	65.93	66.72	67.76	69.18	70.95	72.5	71.36	66.8	63.94	62.14	60.24	57.66	54.4	49.94	43.38	0	130.53
3200	55.61	59.02	60.96	62.18	62.92	63.51	64.32	65.09	66.02	67.25	68.94	71.11	72.57	70.84	66.28	62.67	60.28	57.87	54.98	51.42	46.65	39.49	0	130.04
4000	53.32	56.79	58.54	59.7	60.38	61.19	62.06	62.85	63.93	65.43	67.29	69.43	70.52	68.64	64.26	60.19	57.06	53.87	49.92	45.64	39.81	31.43	0	127.96
5000	48.64	52.89	54.77	55.61	56.16	57.15	58.21	59.02	59.97	61.56	63.6	65.39	66.04	64	59.53	55.29	51.74	47.71	42.56	36.74	29.13	16.36	0	123.71
6300	42.05	46.59	48.81	49.8	50.45	51.62	52.89	53.75	54.54	56.77	57.09	58.61	59.16	57.06	52.34	47.24	43.07	36.3	31.89	23.49	-1.88	0	0	117.21
8000	31.79	36.67	39.37	41.19	42.19	43.49	44.84	45.54	46.21	47.17	48.35	49.46	49.29	46.6	41.37	35.7	30.79	24.33	6.39	0	0	0	0	107.99
10000	0	17.84	22.8	25.97	28.09	29.92	31.27	31.69	32.05	32.69	33.41	33.69	33.4	30.07	23.77	13.49	0	0	0	0	0	0	0	92.89
OASPL	74.02	75.39	76.44	77.23	77.84	78.37	78.87	79.36	79.96	80.67	81.5	82.52	83.43	83.56	83.51	83.95	84.58	85.05	85.18	84.86	83.6	80.9	0	147.55
PNL	82.26	84.62	86.16	87.19	87.9	88.54	89.17	89.83	90.59	91.6	92.88	94.45	95.57	94.87	92.1	90.42	89.9	89.29	87.84	86.47	84	80.68	0	92.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg 363
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 573.52
m01 0.19976
pamb 14.3102
tamb 494.916
rhumid 81.51
winds1 0
nprc 1.166
nprb 1.215
ptc 16.6857
ptb 17.3869
wactc 1.662
wactb 9.377
ttc 1114.98
ttb 506.349
ptmix 17.2813
ttmix 597.983
mixpnd 0.478366
grsvisp 6331.09
badchan [26]
bkgnd 351
escdate 02.Dec.96
esctime 22:37:31
DADSdate 02.Dec.96
DADStime 22:37:31
bichdate 02.Dec.96
bichtime 22:37:31
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 03:39:26 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	55.28	55.93	57.86	59.69	61.39	62.37	62.82	62.85	62.95	62.99	63.17	63.57
100	0	55.93	57.58	59.11	60.18	60.97	61.5	61.8	62.02	62.28	62.7	63.34
130	57.07	57.76	58.58	59.45	60.32	61.15	61.93	62.64	63.24	63.73	64.09	64.32
160	58.24	59.25	60.38	61.24	62.05	61.98	62.93	63.09	62.72	62.34	62.85	63.41
200	59.36	60.95	62.24	62.86	64.63	64.77	64.92	64.56	63.99	65.1	65.87	66.34
250	62.29	64.31	65.9	67.01	67.75	68.16	68.5	68.89	69.35	69.96	70.56	71.21
320	63.94	65.88	67.14	67.84	68.18	68.36	68.81	68.92	69.28	69.76	70.44	71.29
400	62.23	64.43	66.08	67.21	67.95	68.48	68.93	69.37	69.86	70.42	71.01	71.49
500	63.62	66.03	67.52	68.35	68.85	69.3	69.73	70.15	70.85	71.29	72.08	72.86
630	63.12	66.14	67.49	68.04	68.36	68.74	69.13	69.73	70.48	71.2	71.84	72.47
800	63.13	66.52	67.76	67.93	67.99	68.36	68.76	69.29	70.01	70.87	71.75	72.44
1000	62.09	65.06	66.25	66.48	66.59	66.97	67.56	68.48	69.3	69.82	70.43	70.99
1300	61.03	64.15	65.23	65.47	65.66	66.11	66.68	67.24	67.77	68.3	68.81	69.27
1600	59.66	62.59	63.27	63.48	63.66	64.07	64.51	65.1	65.79	66.4	66.98	67.56
2000	58.5	61.8	62.19	62.66	62.97	63.49	64.11	64.57	65.06	65.58	66.23	66.73
2500	58.06	60.86	61.31	61.84	62.22	62.71	63.3	63.74	64.19	64.7	65.34	65.95
3200	57.64	60.88	61.28	61.83	62.34	63.02	63.78	64.11	64.64	65.04	65.47	65.67
4000	56.91	60.93	61.68	62.3	62.49	63.15	64.21	64.07	64.55	65.03	65.31	65.52
5000	57.07	61.32	62.08	62.62	62.61	63.74	64.92	65.01	65.1	65.59	66.25	66.57
6300	57.74	62.33	63.08	63.69	63.8	64.85	65.98	66.08	66.45	66.89	66.99	67.35
8000	59.52	63.73	64.53	64.98	64.95	66.15	67.68	67.47	67.83	68.26	68.56	68.69
10000	59.64	62.94	63.33	64.27	64.89	65.63	66.17	66.14	66.52	66.85	67.15	66.81
OASPL	73.78	76.6	77.72	78.35	78.79	79.31	79.88	80.23	80.71	81.27	81.88	82.4

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	64.09	64.66	65.22	65.72	66.11	66.38	66.53	66.58	66.63	66.85	67.59	106.71
100	64.16	65.01	65.77	66.33	66.62	66.6	66.3	65.87	65.55	65.6	66.3	106.4
130	64.49	64.66	64.88	65.2	65.66	66.18	66.62	66.85	66.84	66.69	66.56	106.7
160	63.83	64.21	64.74	65.48	66.28	67.03	67.48	67.61	67.48	67.14	66.72	106.95
200	67.06	67.96	68.44	68.55	68.46	68.3	68.43	68.1	66.97	65.85	65.01	109.01
250	71.8	72.29	72.69	73.05	73.25	73.1	72.56	71.64	70.47	69.22	68.2	113.32
320	72.15	72.9	73.41	73.67	73.74	73.49	72.53	71.24	69.88	68.54	64.47	113.81
400	71.85	72.25	72.52	72.44	71.95	71.12	69.98	68.57	66.94	64.64	59.13	112.9
500	73.55	74.12	74.46	74.47	74.08	73.3	72.1	70.47	68.45	65.97	63.69	114.42
630	73.06	73.53	73.69	73.39	72.54	71.15	69.34	67.53	66.06	65.26	65.42	113.65
800	72.91	73.1	72.94	72.36	71.24	69.56	67.53	65.77	64.47	63.33	62.6	113.13
1000	71.29	71.32	71.46	71.37	70.34	68.4	66.53	64.85	63.44	62.36	62.13	111.85
1300	69.64	69.73	69.94	69.63	68.38	66.61	64.79	63.17	61.9	61.22	61.41	110.38
1600	68.24	68.75	69.29	69.28	68.18	66.36	64.5	62.72	61.19	60.16	59.99	109.04
2000	66.95	67.06	67.26	67.02	66.03	64.57	62.9	61.26	59.83	58.87	58.73	107.78
2500	65.96	65.79	65.8	65.38	64.33	62.98	61.39	59.88	58.1	57.09	57.12	106.7
3200	65.24	65.06	65.22	64.86	63.63	61.97	60.21	58.34	56.65	55.67	55.77	106.52
4000	65.18	64.25	64.13	63.95	62.89	61.24	59.31	57.21	55.51	54.39	54.25	106.3
5000	66	64.89	64.51	64.09	62.93	61.26	59.34	57.34	55.6	54.52	54.4	106.69
6300	67.06	66.12	65.43	64.74	63.48	61.75	59.69	57.89	56.24	55.06	54.73	107.88
8000	68.16	67.06	66.26	65.67	64.66	63.02	61.12	58.97	57.05	55.88	55.54	109.16
10000	66.44	65.82	65.38	65.51	64.61	62.29	60.03	57.82	55.79	54.49	54.19	108.05
OASPL	82.78	83.03	83.24	83.18	82.7	81.88	80.86	79.74	78.6	77.58	76.78	123.83

NASA Lewis Allison AST Jet Noise Test 1996

rdg	363
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
ambxc	35.02
ambxb	78.39
scale	4
vid	573.52
m01	0.19976
pamb	14.3102
tamb	494.916
rhumid	81.51
winds1	0
nprc	1.168
nprb	1.215
ptc	16.6857
ptb	17.3869
wactc	1.662
wactb	9.377
ttc	1114.96
ttb	506.349
ptmix	17.2813
ttmix	597.983
mixpnd	0.478366
grawtp	6331.08
badchan	(26)
bkgnd	351
eacdate	02.Dec.96
eactime	22:37:31
DADSdate	02.Dec.96
DADStime	22:37:31
btchdate	02.Dec.96
btchtime	22:37:31

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 03:39:32 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	21.89	32.35	33.83	36.78	37.87	38.81	41.85	42.9	41.08	43.32	42.96	42.81	42.78	42.76	42.86	44.77	43.82	42.59	40.89	39.06	37.22	35.51	33.95	106.1
100	31.54	33.73	37.02	37.95	38.86	39.11	41.89	41.73	41.04	40.4	40.26	43.03	43.21	42.96	42.27	41.32	43.03	42.39	41.58	40.39	38.8	36.76	34.2	105.81
130	37.4	38.55	39.38	41.4	42.02	41.53	42.89	42.52	42.95	44.22	43.8	43.31	42.99	43.87	43.61	43.4	43.06	42.72	43.24	42.12	40.45	38.1	35	107.31
160	35.93	38.73	39.59	40.14	43.62	43.6	44.71	42.92	41.93	41.7	41.81	41.91	42.8	43.01	43.48	43.15	43.17	42.1	40.57	38.96	36.79	35.52	32.19	108.54
200	38.92	40.61	43.58	44.49	46.42	46.74	48.16	44.27	43.39	45.44	45.68	47.17	47.52	47.84	48.14	47.73	47.13	47.26	45.51	43.47	41.01	39.07	35.42	110.55
250	41.36	43.92	46.07	47.47	47.86	48.33	48.34	48.45	49.73	49.98	50.8	50.97	51.61	51.54	51.82	51.31	51.05	49.59	47.49	45.42	42.07	37.8	29.57	113.68
320	40.15	41.83	43.23	44.54	46.08	47.1	47.57	48.31	48.38	48.76	48.66	49.2	49.42	49.46	49.47	48.81	48.2	46.67	44.55	41.22	37.98	34.43	25.91	111.53
400	39.44	42.96	45.25	46.58	47.29	47.8	48.38	48.45	49.13	49.55	50.07	50.41	50.33	50.64	50.7	50.46	49.02	47.81	45.1	42.41	38.77	33.8	28.2	112.57
500	40.03	43.05	44.72	45.81	46.39	46.88	47.3	48.87	48.48	50.16	50.78	51.19	51.4	51.24	50.68	49.59	48.16	45.72	43.07	39.53	35.51	31.28	26.93	112.43
630	38.98	42.7	44.62	45.17	45.72	46.28	46.85	48.07	48.77	49.47	49.92	50.34	50.62	50.68	50.03	48.69	46.56	43.72	40.09	36.55	33.56	30.1	25.84	111.56
800	37.83	41.74	43.32	43.84	43.95	44.44	45.03	47.19	47.76	48.16	48.68	49	48.7	48.12	47.38	46.37	44.66	41.8	38.55	35.06	31.06	26.79	21.77	109.83
1000	36.04	39.79	41.4	42.02	42.44	42.82	43.59	45.92	46.65	47.09	47.38	47.35	47.33	46.75	46.05	44.86	42.17	39.26	35.93	32.38	28.82	24.46	19.58	108.31
1300	34.19	37.72	38.87	39.44	39.96	40.64	41.09	44.22	44.58	44.72	44.78	44.89	44.87	44.34	44.14	43.37	41.12	37.8	34.31	30.46	26.37	21.78	15.46	106.17
1600	31.91	36.13	37.03	37.81	38.21	38.95	39.79	41.52	42.08	42.47	42.87	43.01	42.86	42.63	42.19	40.93	38.72	35.76	32.26	28.38	23.78	18.47	0	104.12
2000	29.98	33.78	34.87	35.77	36.43	37.22	37.83	40.27	40.65	40.98	41.26	41.39	41.05	40.27	39.41	37.89	35.67	32.79	29.31	25.12	20.24	0	0	102.12
2500	27.82	31.58	32.66	34.02	34.99	35.09	36.93	38.47	38.9	39.22	39.52	39.68	39	38.02	37.25	35.79	33.17	30.01	26.19	21.64	8.83	0	0	100.22
3200	24.03	28.93	30.53	31.94	32.83	33.77	35.05	37.37	37.84	38.01	38.14	37.89	36.88	35.78	34.78	33.22	30.81	26.99	22.88	11.38	0	0	0	98.37
4000	17.8	25.27	27.06	28.42	29.18	30.8	32.25	35.07	35.51	35.95	35.99	35.78	34.59	32.71	31.38	29.8	27.03	23.02	9.93	0	0	0	0	95.74
5000	0	13.67	19.29	22.36	23.78	26.05	27.61	32.53	32.61	32.9	33.19	32.89	31.56	29.54	27.87	25.62	20.73	-2.5	0	0	0	0	0	92.34
6300	0	0	0	0	0	11.6	18.73	28.06	28.56	28.89	28.82	28.37	27.16	24.5	20.88	13.53	0	0	0	0	0	0	0	87.29
8000	0	0	0	0	0	0	0	18.68	19.1	19.59	18.94	17.2	11.03	0	0	0	0	0	0	0	0	0	0	76.73
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	49.33	52.25	54.09	55.15	56.04	56.54	57.29	57.84	58.29	58.83	59.21	59.57	59.72	59.64	59.44	58.77	57.74	56.2	54.13	51.81	49.03	46.12	42.18	121.57
PNL	54.96	58.88	60.5	61.7	62.55	63.22	64.07	64.6	65.05	65.61	65.99	66.26	66.16	65.75	65.2	64.34	62.63	60.39	57.3	53.74	49.24	43.54	36.31	65.66

NASA Lewis Allison AST Jet Noise Test 1996

rdg 382
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 828.12
m01 0.20005
pamb 14.3097
tamb 494.751
rhumid 81.14
winds1 0
nprc 1.393
nprb 1.442
ptc 19.9334
ptb 20.6346
wactc 2.808
wactb 13.148
ttc 1187.91
ttb 508.571
ptmix 20.5113
ttmix 626.408
mixpnd 0.874872
grsvixp 13211.8
badchan {26}
bkgnd 351
escdate 02.Dec.96
esctime 22:23:46
DADSdate 97.08.18
DADStime 22:23:48
btchdate 02.Dec.96
btchtime 22:23:46
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 11:51:43 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	66.97	67.5	68.09	68.7	69.31	69.91	70.48	71	71.48	71.9	72.26	72.57	72.88	73.23	73.88	74.25	74.98	75.88	76.98	78.18	79.46	80.93	82.97	116.82
100	69.84	70.43	70.88	71.1	71.22	71.3	71.42	71.62	71.93	72.38	73	73.67	74.06	74.4	74.94	75.67	76.51	77.37	78.23	79.18	80.25	81.44	82.94	117.7
130	75.11	69.37	68.87	69.81	70.26	70.54	70.77	71.02	71.33	71.75	72.3	73	73.78	74.57	75.34	76.32	77.49	78.66	79.68	80.52	81.23	81.92	82.89	118.13
160	70.42	71.18	71.55	71.78	71.91	72	72.22	72.73	73.49	74.27	75.13	75.58	74.89	75.52	76.87	77.98	78.7	79.24	79.74	80.16	80.43	80.51	80.44	118.8
200	71.52	71.86	72.03	72.67	73.37	73.85	73.87	73.97	74.22	74.4	74.75	75.3	75.93	76.55	77.09	77.98	79.01	79.7	80.13	80.24	80.04	79.72	79.58	119.15
250	72.89	72.84	73.41	74.05	74.45	74.41	74.31	74.55	75.19	75.99	76.74	77.49	78.35	79.11	79.81	80.04	80.4	81.09	80.9	80.65	80.61	80.29	79.3	120.58
320	72.69	73.86	74.53	74.9	75.13	75.32	75.5	75.65	75.93	76.49	77.1	77.71	78.57	79.29	80	79.84	79.42	79.88	79.94	79.75	79.35	78.32	76.63	120.45
400	72.25	73.86	74.47	74.91	75.22	75.65	76.38	77.07	77.53	77.75	78.14	78.95	79.26	79.62	80.05	80.11	79.78	79.38	79.06	78.88	77.97	76.6	74.75	120.74
500	72.75	75.02	75.89	75.85	75.84	76.32	77.08	77.9	78.34	78.49	79.03	79.66	80.05	80.2	80.84	80.42	80.04	80.15	78.98	77.76	76.98	75.95	74.34	121.3
630	73.18	75.55	76.25	76.19	76.14	76.5	77.26	77.79	78.04	78.23	78.43	78.87	79.01	79.52	80.03	79.51	78.6	78.27	77.82	77.09	76.05	74.69	73.26	120.75
800	73.74	76.64	77.35	77.2	77.11	77.48	78.1	78.67	79.02	79.2	79.76	80.36	80.53	80.43	80.27	79.56	78.44	77.49	77.02	76.2	74.91	73.95	72.82	121.47
1000	74.66	77.28	77.9	77.48	77.39	77.49	77.9	78.63	79.38	79.84	80.17	80.36	80.43	80.52	80.47	79.32	77.87	77.28	76.69	75.55	74.2	73.17	72.2	121.57
1300	74.36	77.37	78.14	77.94	77.69	78	78.77	79.43	79.7	79.98	80.39	80.54	80.73	80.69	80.81	79.76	77.98	77.03	76.29	75.4	74.33	73.1	71.87	121.86
1600	74.46	77.65	77.88	77.67	77.32	77.51	78.22	79.15	79.66	79.9	80.53	81	81.29	81.67	82.05	80.36	77.84	76.82	76.19	75.19	73.8	72.55	71.67	122.05
2000	74.06	77.01	76.95	77.26	77.05	76.97	77.5	78.34	79.13	79.75	80.23	80.66	81.35	82.09	82.9	81.22	78.14	76.67	76.06	75.12	73.6	72.21	71.35	121.97
2500	73.07	75.81	75.93	76.12	76.19	76.43	77.05	77.8	78.36	78.82	79.64	80.83	81.24	82.13	82.95	81.11	77.96	76.35	75.46	74.27	72.89	71.46	70.8	121.57
3200	71.93	73.93	74.57	74.78	74.76	75.06	75.8	76.54	77.33	77.95	78.53	79.16	79.79	80.8	81.46	79.95	77.4	75.95	75.06	73.87	72.29	71.17	70.68	120.36
4000	70.77	73.12	73.85	74	73.7	74.08	74.9	75.26	75.87	76.56	77.22	77.84	77.98	78.19	78.63	77.74	75.64	73.97	73.02	71.84	70.33	69.44	69.29	118.65
5000	69.54	72.34	73.23	73.19	72.72	73.24	74.13	74.51	74.8	75.06	75.6	75.73	75.63	75.65	75.67	74.62	72.76	71.24	70.21	68.95	67.53	66.85	66.91	118.68
6300	68.71	71.89	72.79	73.02	72.43	72.73	73.64	74.01	74.45	74.55	74.65	74.61	74.27	74.15	74.05	72.65	70.48	68.97	68.06	67.05	65.75	64.79	64.41	115.92
8000	68.58	72.06	72.92	73.2	72.5	72.89	73.61	73.75	74.09	74.24	74.42	74.23	73.51	73.21	72.74	71.38	69.51	67.98	66.98	65.96	64.89	63.59	63.05	115.56
10000	67.44	70.14	71.07	71.79	71.91	72.1	71.62	71.62	72.07	72.01	72.26	71.09	70.63	71.06	71.27	70.15	67.71	65.37	64.34	63.44	61.7	60.12	59.52	113.65
OASPL	85.76	87.71	88.26	88.36	88.31	88.57	89.14	89.72	90.21	90.57	91.06	91.55	91.89	92.32	92.79	92.05	91.04	90.86	90.72	90.53	90.35	90.26	90.5	133.33

NASA Lewis Allison AST Jet Noise Test 1996

rdg 382
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 828.12
m01 0.20005
pamb 14.3097
tamb 494.751
rhumid 81.14
winds1 0
nprc 1.393
nprb 1.442
ptc 19.9334
ptb 20.6346
wactc 2.806
wactb 13.148
ttc 1187.91
ttb 506.571
ptmix 20.5113
ttmix 626.406
mixpnd 0.674872
grsvbp 13211.6
badchan (26)
bkgnd 351
escdate 02.Dec.96
esctime 22:23:46
DADSdate 97.08.18
DADStime 22:23:46
btchdate 02.Dec.96
btchtime 22:23:46
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:51:53 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	44.84	48.74	48.89	48.86	48.94	49.05	51.75	50.96	49.6	52.14	51.95	51.97	52.05	52.03	51.77	53.83	53.09	52.49	51.88	51.54	51.17	50.45	49.14	116.56
100	47.08	47.35	49.08	49.15	49.45	49.08	50.92	61.55	50.98	50.59	50.69	53.1	52.91	52.43	52.2	52.35	54.99	56.08	54.87	53.88	52.77	51.42	49.97	117.56
130	52.89	49.14	48.77	50.66	50.66	50.48	52.13	50.9	50.95	53.08	52.86	52.86	53.16	54.85	54.8	54.59	54.24	54.01	55.3	54.5	53.3	51.56	49.29	118.26
160	48.77	50.34	50.81	51.3	53.11	53.28	53.74	52.55	52.8	54.24	54.6	54.37	54.4	54.1	54.82	54.89	55.6	54.97	53.96	52.99	51.59	50.44	47.52	118.46
200	50.17	50.03	51.38	51.77	53.02	52.88	54.05	53.7	53.43	54.04	53.71	54.72	55.04	55.21	55.86	55.86	55.58	55.87	54.95	53.75	52.14	50.56	48.99	118.96
250	50.67	52.09	53.78	54.92	56.19	56.34	55.29	54.12	56.69	56.29	57.73	57.93	58.5	58.51	58.71	57.88	57.63	57.21	55.45	53.91	51.61	48.24	43.56	120.83
320	49.71	50.9	51.79	52.71	53.63	54.38	56	55.03	55.07	55.38	56.1	56.03	56.16	56.71	57.41	56.54	55.53	54.14	53.24	51.52	49.44	46.24	41.26	119.11
400	49.44	52.18	53.64	54.24	54.48	54.98	55.82	56.15	56.78	57	57.17	57.4	57.41	57.29	57.07	56.66	55.56	54.86	52.57	50.37	47.65	43.93	39.18	119.76
500	48.5	51.68	53.15	53.59	53.89	54.55	55.36	56.64	57.07	57.18	57.84	58.02	57.96	57.63	57.38	55.99	54.28	52.74	50.81	48.34	45.33	41.29	35.97	119.52
630	49.04	52.24	53.65	53.85	54.32	54.95	55.93	56.13	56.28	56.56	56.73	57.17	57.03	56.87	56.26	54.78	52.64	50.95	49.17	46.59	43.46	39.86	34.78	118.84
800	49.62	52.83	54.04	54.09	54.23	54.72	55.33	56.57	56.93	56.79	57.18	57.33	56.76	56.33	55.91	54.33	52.34	50.52	48.47	45.54	41.71	37.45	31.84	118.6
1000	48.91	52.79	53.8	53.88	54.09	54.55	55.51	56.07	56.82	57.11	57.18	57.21	56.83	56.26	55.41	53.62	51.11	49.14	46.92	44.09	40.47	35.87	29.49	118.56
1300	48.06	51.96	52.99	53.35	53.31	53.79	54.64	56.38	56.51	56.77	56.95	56.87	56.76	56.22	55.88	53.79	50.61	48.11	45.87	42.81	38.76	33.85	27.42	118.25
1600	47.28	51.09	51.71	52.17	52.32	52.58	53.27	55.58	56.05	56.08	56.46	56.51	56.62	56.86	56.53	53.9	49.82	47.06	44.67	41.58	37.28	31.76	24.59	117.81
2000	45.27	48.75	49.56	50.29	50.59	51.07	51.77	54.05	54.77	55.24	55.5	55.63	55.78	55.91	55.93	53.09	48.75	45.8	43.14	39.65	34.84	29.09	21.47	116.71
2500	42.41	45.6	46.67	47.47	47.84	48.28	49.12	52.54	53	53.26	53.7	54.21	54.1	54.45	54.34	51.52	47.18	43.91	40.9	36.99	31.72	25.41	12.54	114.89
3200	38.54	41.67	43.19	44.05	44.37	45.03	45.96	49.85	50.44	50.81	51	51.09	51.02	50.86	50.25	47.78	43.96	40.46	37.02	32.63	26.93	18.66	0	111.68
4000	32.82	36.91	38.74	39.55	39.66	40.8	41.64	46.35	46.8	47.22	47.43	47.18	46.56	45.87	44.59	42.06	38.3	34.5	30.65	25.58	15.93	0	0	107.31
5000	24.67	29.67	31.89	33.12	33.47	34.49	35.86	42.14	42.38	42.33	42.31	41.64	40.65	39.41	37.86	34.88	30.71	26.31	20.54	0	0	0	0	101.77
6300	0	16.85	21.52	23.8	24.21	25.72	27.54	36.25	36.65	36.36	36.07	35.32	33.74	32.13	30.21	26.33	20.03	-2.92	0	0	0	0	0	95.12
8000	0	0	0	0	0	0	0	27.84	27.95	27.64	27	25.56	22.92	19.78	13.83	0	0	0	0	0	0	0	0	85.34
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	60.99	62.96	64.07	64.59	65.01	65.36	66.22	66.81	67.31	67.66	67.96	68.25	68.24	68.18	68.09	67.02	65.94	65.11	64.01	62.62	60.91	58.97	56.31	130.63
PNL	69.06	72.2	73.2	73.81	74.16	74.62	75.46	76.22	76.65	76.97	77.27	77.57	77.45	77.44	77.2	75.11	72.12	70.05	67.95	65.45	62.44	58.62	53.36	77.04

NASA Lewis Allison AST Jet Noise Test 1996

rdg	360
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	1050.45
m01	0.19969
pamb	14.3105
tamb	495.368
rhumid	79.97
winds1	0
nprc	1.742
nprb	1.82
ptc	24.9269
ptb	26.0451
wactc	3.938
wactb	17.953
ttc	1405.23
ttb	503.667
ptmix	25.8443
ttmix	685.85
mixpnd	0.830315
grsvup	22995.4
badchan	(26)
bkgnd	351
escdate	02.Dec.96
esctime	22:03:27
DADSdate	97.08.18
DADStime	22:03:27
blchdate	02.Dec.96
blchtime	22:03:27

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Mon Aug 18 11:54:37 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.93	77	77.2	77.52	77.91	78.36	78.85	79.37	79.91	80.45	80.98	81.53	82.16	82.92	83.87	85.04	86.46	88.15	90.08	92.08	94.01	95.92	98.1	128.94
100	77.74	78.82	79.41	80	80.38	80.48	80.47	80.46	80.52	80.78	81.22	81.92	82.83	83.88	85.03	86.28	87.63	89.12	90.76	92.59	94.5	96.38	98.34	129.83
130	79.33	80.34	80.68	80.62	80.33	80	79.74	79.65	79.81	80.28	81.12	82.16	82.96	83.92	85.33	87.06	88.96	90.8	92.41	93.78	94.99	96.23	97.87	130.18
160	81.23	81.75	81.73	81.5	81.33	81.34	81.53	81.89	82.39	83.02	83.74	84.54	85.44	86.43	87.5	88.6	90.12	92.24	94.25	95.63	96.3	96.39	96.01	131.45
200	80.92	81.14	80.99	81.04	81.6	82.66	82.92	82.76	83.1	84.12	84.95	85.23	85.85	86.64	87.31	88.01	88.9	89.89	90.96	92.23	93.38	94.06	93.98	129.86
250	80.53	80.98	81.22	81.44	81.77	82.47	83.39	83.81	83.93	84.56	85.28	85.97	86.71	87.51	88.38	89.05	89.69	90.8	92.35	93.14	93.14	93.12	92.55	130.35
320	81.58	81.98	81.6	81.91	82.68	83.19	83.17	83.21	83.7	84.42	85.13	85.91	86.9	87.53	88.8	89.67	90.17	91.11	91.8	91.81	91.27	90.44	88.96	129.99
400	81.07	81.59	82.05	82.5	82.96	83.46	83.97	84.61	84.85	84.86	85.64	86.52	87.39	88.77	88.82	88.81	88.49	90.27	90.16	89.86	89.49	88.37	86.7	129.84
500	81.57	82.2	82.64	83.02	83.23	83.49	84.25	84.6	84.75	85.22	85.84	86.5	87.39	88.07	88.61	89.11	89.62	90.07	90.28	89.58	88.19	87.35	85.9	129.55
630	81.88	82.78	83.27	83.55	83.82	84.21	84.81	84.73	85.17	86.21	86.71	86.84	87.35	87.89	88.32	88.75	89.14	89.07	88.63	87.8	86.53	85.21	83.75	129.32
800	82.76	84	84.18	84.06	84.28	85.05	85.63	85.86	86.55	87.09	87.1	87.83	88.23	88.27	88.28	88.05	87.86	87.86	87.43	86.67	85.55	83.96	82.34	129.48
1000	83.72	85.32	85.17	85.18	85.44	85.77	86.27	86.68	86.82	87.36	88.04	88.38	88.72	89.13	89.19	88.76	88.16	87.59	86.76	85.73	84.59	83.38	82.02	130.02
1300	84.74	86.8	86.48	86.21	85.97	86.41	87.11	87.76	88.37	88.5	88.93	89.44	90.22	90.74	90.18	88.9	87.93	87.35	86.62	85.63	84.49	83.29	82.36	130.92
1600	85.36	87.97	87.56	87.18	87.32	87.94	88.27	88.74	89.27	89.6	90.06	90.84	91.81	92.51	91.11	89.39	88.48	87.59	86.67	85.66	84.62	83.52	82.67	132.01
2000	86.09	88.64	88.54	88.19	88.22	88.67	89.4	90.26	90.78	91.1	91.86	92.66	93.86	94.67	92.77	90.26	88.72	87.6	86.93	86.08	84.89	83.87	83.17	133.43
2500	86.94	89.53	89.12	89.01	88.92	89.12	89.98	91.07	91.87	92.54	93.67	94.97	95.81	96.58	94.58	91.42	89.12	87.75	86.8	85.82	84.79	84.05	83.74	134.82
3200	87.81	90.19	89.95	89.99	89.82	89.95	90.78	91.86	93.07	94.03	95.32	96.49	97.22	97.58	96.01	93.19	90.58	88.66	87.33	86.21	85.32	84.91	84.84	136.06
4000	87.82	90.16	90.31	89.99	89.55	89.84	91.1	92.06	93.44	94.86	96.25	97.64	98.02	97.79	96.4	93.96	91.29	89.16	87.73	86.33	85.06	84.64	84.81	136.62
5000	87.24	90.19	90.17	89.44	88.91	89.49	90.67	91.7	92.93	94.4	96	97.42	97.67	96.99	95.62	93.52	91.04	88.91	87.67	86.33	84.89	84.32	84.35	136.19
6300	87.12	90.3	90.18	89.3	88.73	89.4	90.71	91.81	92.98	94.14	95.19	96.38	96.85	96.29	94.78	92.59	90.23	88.29	87.13	85.84	84.55	84.19	84.06	135.62
8000	87.06	90.13	90.13	89.39	88.97	89.56	90.73	91.67	92.44	93.26	94.46	95.56	95.86	95.21	93.74	91.46	89.22	87.58	86.64	85.22	83.89	83.41	83.31	134.92
10000	85.72	87.77	87.8	87.61	87.99	88.44	88.85	89.5	90.05	90.64	91.81	92.04	92.34	92.35	90.94	88.92	86.84	84.83	83.72	82.29	80.67	80.16	80.22	132.33
OASPL	97.95	100.19	100.12	99.83	99.7	100.14	100.96	101.76	102.61	103.5	104.6	105.88	106.21	106.3	105.16	103.61	102.67	102.57	102.96	103.37	103.76	104.3	105.07	146.14

NASA Lewis Allison AST Jet Noise Test 1996

rdg	360
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbid	NATR full wedge
rigbid	JER w/ external supplement
mixbid	MD20
nozbid	SH50
anoz	41.226
amixc	36.02
amixb	78.39
scale	4
vid	1050.45
m01	0.19969
pamb	14.3105
tamb	495.388
rhumid	79.97
winds1	0
nprc	1.742
nprb	1.82
ptc	24.9289
ptb	26.0451
wactc	3.938
wactb	17.953
ttc	1405.23
ttb	503.667
ptmix	25.8443
ttmix	865.85
mixpnd	0.830315
gravlsp	22995.4
badchan	(26)
bkgnd	351
escdate	02.Dec.96
esctime	22:03:27
DADSdate	97.08.18
DADStime	22:03:27
btchdate	02.Dec.96
btchtime	22:03:27

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:54:47 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: f	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
50	54.62	58.19	58.59	58.72	58.75	58.69	60.64	59.33	58.03	61.48	61.27	61.19
100	55.9	56.11	59.19	58.35	59.3	58.43	59.85	60.38	59.49	58.71	58.47	61.13
130	58.61	59.48	59.63	60.99	60.74	60.28	61.47	59.54	59.48	61.04	61.17	61.49
160	58.94	60.74	60.87	60.89	61.8	61.88	62.8	61.71	61.77	63.4	63.87	64.2
200	58.29	58.58	59.69	59.88	61.04	61.52	63.18	62.48	62.33	63.3	63.58	64.39
250	59.41	60.32	60.73	61.5	62.14	62.99	62.99	63.18	64.07	64.48	65.58	65.5
320	58.15	58.72	59.53	60.54	61.63	62.36	62.79	62.6	62.85	63.4	63.58	64.82
400	58.25	59.89	60.49	61.04	61.51	62.05	62.98	63.7	64.03	63.92	64.7	64.63
500	57.6	58.79	59.94	61.09	61.75	62.31	62.79	63.35	63.43	63.86	64.84	64.95
630	57.77	59.42	60.23	60.57	61.47	62.51	63.37	63.07	63.49	64.49	64.62	64.8
800	58.33	60.56	61.32	61.82	62.27	62.93	63.61	63.78	64.51	64.71	64.77	65.23
1000	58.89	61.27	61.64	61.94	62.23	62.93	63.88	64.12	64.38	64.74	64.96	65.06
1300	58.61	61.83	62.35	62.38	63	64.01	64.54	64.7	65.29	65.42	65.87	65.81
1600	58.65	62.08	62.26	62.61	63.04	63.92	64.93	65.12	65.69	66.03	66.48	67.19
2000	57.92	61.68	62.32	62.78	63.11	63.55	64.53	65.96	66.49	66.81	67.49	68.06
2500	57.26	60.55	60.91	61.71	62.29	62.88	63.94	65.75	66.61	67.21	68.2	69.25
3200	54.75	58.43	59.48	59.92	60.04	60.61	62.01	65.11	66.3	67.19	68.28	69.15
4000	50.32	54.26	55.41	55.7	55.76	56.79	58.27	63.06	64.41	65.67	66.75	67.7
5000	42.98	47.72	49.09	49.33	49.63	50.89	52.67	59.31	60.44	61.67	62.77	63.45
6300	32.79	36.27	40.09	40.79	41.41	42.83	44.57	54.04	55.2	58.02	58.56	56.87
8000	9.83	22.14	25.09	26.44	27.9	28.7	30.95	45.74	46.42	46.93	47.47	47.4
10000	0	0	0	0	0	0	0	31.75	31.98	31.92	31.97	30.35
OASPL	70.3	72.43	73.08	73.57	74.08	74.64	75.56	76.21	76.75	77.38	78	78.6
PNL	81.06	84	84.71	85.19	85.69	86.33	87.38	88.36	89.21	89.98	90.81	91.53

distance: f	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
50	61.26	61.46	61.82	64.73	64.73	64.91	64.8	65.03	65.27	65.21	64.64	128.5
100	61.86	62.01	62.2	62.41	65.71	66.36	66.91	67.2	67.08	66.53	65.57	129.55
130	61.71	63.96	64.55	65.27	65.91	66.68	69.3	69.4	68.71	67.15	64.65	130.85
160	65.16	65.15	65.2	65.19	66.13	66.39	66.48	66.57	65.87	64.83	61.75	129.82
200	64.36	64.38	66.11	65.31	65.45	66.34	66.17	65.84	64.95	63.65	60.42	129.3
250	66.36	66.8	67.41	67.17	67.36	67.21	67.19	66.12	63.39	60.2	56.04	130.07
320	65.31	65.41	66.05	65.63	65.77	65.79	64.83	62.84	60.73	57.78	52.94	128.45
400	65.34	66.23	66.13	65.92	65.2	64.93	63.69	61.85	58.88	55.28	50.68	128.34
500	65.28	65.04	64.81	64.75	64.48	63.19	61.87	59.8	56.2	52.06	46.67	127.48
630	64.92	65.23	64.61	63.61	62.73	61.88	59.86	57.23	54.08	50.06	44.54	127
800	65.24	64.81	64.4	63.54	62.23	60.56	58.47	55.73	52.15	47.68	41.6	127.09
1000	65.19	65.57	64.55	62.79	61.01	59.44	57.27	54.39	50.75	45.95	39.68	127.02
1300	66.56	66.39	64.89	62.8	60.99	58.78	56.23	53.14	49.42	44.68	38.32	127.62
1600	67.83	68.17	65.85	62.81	60.32	57.86	55.23	52.2	48.29	43.15	36.15	128.25
2000	68.99	69.09	66.44	62.71	59.69	56.98	54.38	51.02	46.64	41.38	34.07	128.79
2500	69.56	69.74	67.08	63.05	59.36	56.07	52.8	49.04	44.53	38.92	30.98	129.06
3200	69.26	68.68	66.38	62.57	58.34	54.51	50.64	46.34	41.15	34.76	25.38	128.43
4000	67.33	66	63.41	59.71	55.41	51.08	47.02	41.82	35.24	27.62	8.11	126.23
5000	62.88	61.1	58.41	54.53	49.88	45.06	40.18	34.32	26.69	9.05	0	121.78
6300	56.31	54.37	51.11	46.72	41.62	36.27	30.81	22.58	0	0	0	115.39
8000	46.05	43.81	39.85	34.59	26.57	21.39	-2.67	0	0	0	0	105.79
10000	28.45	25.7	20.23	-1.94	0	0	0	0	0	0	0	89.9
OASPL	78.94	78.95	77.89	76.79	76.4	76.15	76.1	75.54	74.51	73.18	71.09	141.21
PNL	91.69	91.34	89.5	86.77	84.18	82.03	80.47	78.56	75.75	72.95	68.6	89.91

NASA Lewis Allison AST Jet Noise Test 1996

rdg	365
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	575.26
m01	0.30048
pamb	14.2562
tamb	494.094
rhumid	82.72
winds1	0
nprc	1.173
nprb	1.221
ptc	16.7225
ptb	17.4068
wactc	1.736
wactb	9.244
ttc	1117.63
ttb	505.944
ptmix	17.2966
ttmix	602.655
mixpnd	0.47797
grsvixp	6316.57
badchan	(26)
bkgnd	352
acqdate	02.Dec.96
acqtime	22:48:05
DADSdate	02.Dec.96
DADStime	22:48:05
blchdate	02.Dec.96
blchtime	22:48:05

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 03:42:27 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	62.73	63.41	63.77	64.44	64.52	64.43	64.54	64.78	65.07	65.32	65.47	65.53	65.65	65.97	66.59	67.19	66.66	65.69	62.11	0	0	0	107.66
250	62.02	66.65	67.45	68.48	69.06	69.44	70.02	70.62	71.1	71.32	71.41	71.75	71.85	72.05	72.61	73.15	73.19	72.9	72.33	71.47	70.33	69.81	69.18	113.88
320	62.34	66.58	67.35	68.75	68.78	69.01	69.78	70.69	71.28	71.5	70.9	70.48	70.37	71.08	71.66	71.57	71.42	71.63	71.51	70.19	67.25	66.63	55.99	113.09
400	59.32	65.15	66.34	68.67	67.44	68.17	69.69	69.79	69.63	70.01	70.61	71.25	71.37	71.54	71.88	72.14	72.06	71.29	70.04	68.61	65.15	63.71	59.3	112.68
500	59.2	67.09	68.64	68.92	68.7	69.25	70.22	70.86	71.37	71.67	71.69	71.9	72.23	72.49	72.77	72.99	72.66	72.43	71.62	70.31	68.68	67.67	63.16	113.87
630	62.4	68.26	67.52	67.76	68.08	68.66	69.36	70.3	71.02	71.19	71.48	72.06	72.6	72.7	72.72	72.48	71.43	70.12	68.88	67.79	66.81	66.05	65.07	113.28
800	62.4	67.19	67.28	66.97	67.42	68.06	68.96	69.58	70.22	70.64	71.01	71.22	71.67	71.91	71.85	71.46	70.49	68.99	67.37	66.02	64.94	64.2	64.46	112.52
1000	58.44	65.42	65.66	65.58	66.44	67.1	68.17	68.91	69.15	69.48	69.82	69.75	69.63	69.37	69.47	69.63	68.91	67.66	66.28	64.65	63.34	62.44	62.57	111.02
1300	59.65	64.19	63.75	64.35	64.94	65.6	66.54	67.17	67.32	67.58	67.94	68.14	68.52	68.68	68.61	68.06	66.93	65.59	64.1	62.62	61.55	61.24	61.43	109.49
1600	57.4	62.08	61.38	61.83	63	63.79	65.07	65.94	66.35	66.87	67.3	67.17	67.38	67.44	67.38	67.11	66.1	65.06	64.01	62.52	61.23	60.76	61.16	108.35
2000	50.75	61.15	60.83	60.94	62.1	63.04	64.21	65.06	65.3	65.31	65.34	65.42	65.56	65.37	65.48	65.49	64.29	63.22	62.28	61.08	59.81	59.19	59.02	106.66
2500	52.99	60.29	60.47	60.71	61.44	62.23	63.25	63.81	63.97	63.91	63.89	64.17	64.37	64.07	64.03	63.92	62.65	61.26	60.06	58.65	57.81	57.45	57.87	105.8
3200	54	60.09	60.55	61.07	61.87	62.26	63.31	63.56	63.88	64.17	64.15	64.29	64.23	63.85	63.66	63.4	62.35	61	59.7	58.56	57.17	56.61	56.3	105.55
4000	53.74	60.32	60.87	61.6	62.14	62.7	63.82	64.13	64.29	64.27	64.26	64.29	64.11	63.14	62.73	62.67	61.59	60.38	59.17	57.83	56.43	55.68	55.34	105.55
5000	56.84	61.25	62.36	62.54	62.67	63.68	64.88	65.04	65.05	65.24	65.34	65.02	64.55	63.78	63.23	62.75	61.71	60.47	59.19	57.8	56.55	55.75	55.97	106.31
6300	59.82	62.64	63.77	64.31	64.14	64.78	66.19	66.36	66.37	66.48	66.24	66.07	65.77	64.94	64.26	63.69	62.36	60.99	59.76	58.62	57.5	56.63	56.76	107.51
8000	61.78	64.35	65.33	65.65	65.6	66.25	67.57	67.82	67.8	67.65	67.55	67.5	67.04	66.05	65.16	64.36	63.2	62.07	61.06	59.99	58.85	57.98	58.14	108.83
10000	60.43	63.81	64.19	65.08	65.6	65.96	66.26	66.37	66.45	66.19	66.11	65.4	64.93	64.37	63.94	63.57	62.69	61.35	59.91	58.71	57.61	56.67	56.62	110.33
OASPL	80.96	78.94	77.64	78.11	78.49	79.04	79.97	80.53	80.87	81.1	81.21	81.36	81.5	81.55	81.69	81.69	81.21	80.48	79.57	78.27	76.52	75.73	74.19	123.12

NASA Lewis Allison AST Jet Noise Test 1996

rdg	365
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	575.28
m01	0.30048
pamb	14.2562
tamb	494.094
rhumid	82.72
winds1	0
nprc	1.173
nprb	1.221
ptc	16.7225
ptb	17.4068
wactc	1.736
wactb	9.244
ttc	1117.63
ttb	505.944
ptmix	17.2986
ttmix	602.655
mixpnd	0.47797
grsvisp	6318.57
badchan	{28}
bkgnd	352
eacdate	02.Dec.96
eactime	22:48:05
DADSdate	02.Dec.96
DADStime	22:48:05
btchdate	02.Dec.96
btchtime	22:48:05

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 03:42:33 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	41.84	41.95	0	0	0	0	0	0	0	0	41.7	41.48	40.18	0	0	0	0	0	99.83
160	0	42.68	43.66	45.81	46.88	48.2	49.91	44.23	45.82	46.19	48	49.29	48.37	48.61	48.18	49.53	48.72	48.85	40.5	35.86	0	0	0	111.17
200	42.6	46.07	47.72	48.76	48.96	49.36	49.54	50.19	51.36	51.9	51.95	51.42	51.49	51.48	51.15	49.86	48.88	47.26	47.12	44.84	42.95	40.28	36.99	113.9
250	36.28	43.22	44.02	45.12	46.06	46.96	48.71	50.09	50	49.66	48.4	47.91	48.17	48.87	49.06	48.75	47.84	46.2	46.11	43.28	37.86	35.24	0	111.72
320	37.02	43.46	46.22	48.1	46.43	47.58	48.64	48.88	49.11	49.38	49.52	49.47	49.29	49.11	49.25	49.29	48.59	47.33	44.15	41.28	38.61	32.89	26.5	111.92
400	36.02	43.71	45.82	46.31	46.64	47.09	47.94	49.62	50.43	50.77	50.63	50.51	50.83	50.55	50.01	48.85	48.69	44.2	45.14	42.41	39.13	35.47	27.99	112.39
500	39.01	43.33	44.58	44.81	45.24	46.2	46.87	48.66	49.3	49.44	49.54	49.93	49.51	48.79	48.09	47.08	45.29	42.79	41.61	39.12	36.27	32.87	28.31	111.01
630	35.82	42.44	42.88	42.69	43.72	44.27	45.61	47.49	47.86	47.49	47.3	46.71	46.74	46.36	45.76	44.77	43.1	40.59	39.76	36.59	33.12	29.58	25.63	108.89
800	34.08	40.18	40.5	41.21	41.97	42.54	43.45	46.34	46.63	46.67	46.82	46.44	45.69	44.88	44.02	42.71	40.32	37.58	37.76	34.45	30.59	26.57	22.21	107.52
1000	32.18	37.7	37.94	38.52	38.57	40.68	41.72	44.13	43.99	43.97	43.63	43.01	42.81	42.68	41.91	40.74	38.79	36.55	34.53	31.25	27.68	23.95	18.97	105
1300	29.68	35.61	35.47	36.02	37.77	38.89	39.92	42.34	42.65	42.78	42.97	42.62	42.04	41.23	40.35	39.23	36.8	34.06	33.8	30.17	26.13	21.85	16.06	103.62
1600	18.59	33.33	33.75	34.56	35.6	36.77	37.68	40.77	40.77	40.37	39.92	39.59	39.22	37.98	37.2	36.25	33.6	30.79	31.17	27.56	23.38	18.15	1.31	101.09
2000	23.71	30.83	31.87	32.91	34.37	35.19	36.59	38.53	38.65	38.45	38.26	38.21	37.78	36.78	35.67	34.26	31.75	28.77	27.63	23.95	19.27	3.14	0	99.31
2500	20.48	28.03	29.64	31.11	32.21	33.16	34.67	36.81	37.08	37.12	36.68	36.47	35.88	34.35	33.08	31.67	29.01	25.86	25.42	21.5	10.51	0	0	97.38
3200	14.45	24.63	26.48	27.81	29.11	30.65	32.2	35.12	35.36	35.32	35.17	34.53	33.55	31.85	30.21	28.55	25.95	22.03	22.27	10.75	0	0	0	95.14
4000	0	14.2	20.02	22.52	24.04	25.83	27.76	32.6	32.59	32.67	32.43	31.56	30.36	28.89	27.03	24.98	19.28	0	9.05	0	0	0	0	91.62
5000	0	0	0	-1.31	-2.4	9.75	17.89	28.39	28.54	28.58	28.07	27.51	26.25	23.45	19.35	6.98	0	0	0	0	0	0	0	86.82
6300	0	0	0	0	0	0	0	19.25	19.26	18.78	17.02	14.63	0	0	0	0	0	0	0	0	0	0	0	75.98
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.36
OASPL	46.88	52.76	54.04	54.9	55.5	56.47	57.49	58.11	58.64	58.8	58.78	58.69	58.53	58.35	57.97	57.54	56.31	54.89	53.02	50.22	46.77	43.66	38.7	120.83
PNL	51.84	58.48	59.84	60.8	61.49	62.62	63.81	64.55	65.06	65.19	65.06	64.84	64.67	64.12	63.42	62.66	61.16	59.03	56.33	52.73	48.07	43.16	35.14	62.93

NASA Lewis Allison AST Jet Noise Test 1996

rdg 366
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 812.31
m01 0.30083
pamb 14.2555
tamb 493.955
rhumid 82.97
winds1 0
nprc 1.395
nprb 1.441
ptc 19.8864
ptb 20.5422
wactc 2.725
wactb 12.97
ttc 1161.23
ttb 505.447
ptmix 20.4283
ttmix 622.778
mixpnd 0.663913
grsvixp 12749.2
badchan {26}
bkgnd 352
escdate 02.Dec.96
esctime 22:51:56
DADSdate 02.Dec.96
DADStime 22:51:56
bichdate 02.Dec.96
bichtime 22:51:56
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 03:45:30 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	66.7	67.4	67.66	68.19	68.23	67.74	67.44	67.61	68.4	69.62	70.23	70.13	70.66	71.71	70.67	70.17	71.07	72.84	74.52	75.66	77.96	112.66
100	0	68.31	67.72	67.19	68.33	70.48	71.72	72.07	71.98	71.78	71.45	70.81	69.97	69.78	70.39	71.04	71.26	72.09	73.34	74.47	75.79	77.58	78.46	114.43
130	61.96	67.88	67.75	68.74	68.93	69.02	69.28	69.58	69.83	69.96	69.94	70.06	70.79	70.76	71.1	72.36	73.34	74.21	75.06	76.01	76.93	77.87	79.01	114.57
160	66.72	68.04	68.84	69.31	69.58	69.75	69.86	69.97	70.1	70.28	70.52	70.63	71.22	71.69	72.14	72.59	73.17	73.92	74.76	75.59	76.33	76.99	77.45	114.67
200	68.02	68.41	68.91	69.42	69.79	70.02	70.22	70.48	70.87	71.41	72.06	72.62	73.06	73.71	74.06	74.1	74.26	74.57	74.82	74.92	74.92	75.04	75.48	115.25
250	69.32	71.07	72.04	72.48	72.57	72.53	72.62	73.09	73.73	74.06	74.21	74.63	75.63	76.41	77.07	77.64	77.84	77.63	77.2	76.74	76.3	75.93	75.55	117.85
320	71.18	72.66	73.39	73.73	73.89	74.06	74.34	74.66	74.85	74.81	74.91	75.53	76.03	76.19	76.29	76.37	76.42	76.29	75.89	75.24	74.52	73.92	73.84	117.69
400	70.2	72.22	72.92	73.25	73.61	74.02	74.47	74.95	75.43	75.9	76.33	76.68	76.88	76.94	76.82	76.56	76.16	75.6	74.9	74.08	73.15	72.32	71.9	118.11
500	71.52	73.71	74.22	74.26	74.47	74.97	75.52	76.01	76.42	76.77	77.05	77.19	77.39	77.69	78	78.06	77.59	76.85	75.95	74.97	73.95	72.65	72.01	119.08
630	71.47	74.41	75.05	75.01	75.12	75.48	75.72	76.05	76.29	76.52	76.63	76.77	76.88	77.03	76.87	76.32	75.75	75.17	74.45	73.54	72.53	71.6	71.14	118.64
800	72.48	76.31	76.44	76.13	76.19	76.33	76.87	77.53	77.65	77.76	77.69	77.98	78.03	77.84	77.54	76.98	75.99	75.09	74.25	73.3	72.32	71.43	70.96	119.65
1000	73.73	76.68	76.6	76.32	76.33	76.42	76.88	77.31	77.44	77.51	77.64	77.61	77.77	77.81	77.84	77.48	76.51	75.39	74.22	72.96	71.76	70.63	70.4	119.67
1300	73.85	77.1	76.95	76.82	76.99	76.99	77.24	77.77	78.02	78.05	78.18	78.47	78.71	78.97	79.01	78.41	77.01	75.38	73.99	72.94	72.05	71.18	70.7	120.28
1600	74.14	76.79	76.93	76.72	76.67	76.81	77.14	77.55	77.82	77.93	78.05	78.54	79.17	79.5	79.57	79.05	77.78	76.24	74.66	73.23	71.97	70.96	70.5	120.42
2000	73.55	76.17	76.46	76.28	76.14	76.35	76.85	77.27	77.62	77.95	78.37	79.22	79.72	80.01	80.15	79.69	78.24	76.67	75.28	73.9	72.8	71.55	71.15	120.56
2500	72.42	74.83	74.98	75.2	75.44	75.66	76.27	76.71	76.69	77.21	77.64	78.34	79.08	79.51	79.66	79.19	77.86	76.09	74.77	73.65	72.56	71.54	71.09	119.87
3200	71.29	73.18	73.43	74.02	74.13	74.32	74.8	75.4	75.71	75.97	76.4	77.14	77.61	77.86	78.18	77.97	76.61	75.16	73.94	72.87	71.87	71.07	70.87	118.58
4000	70.33	72.68	72.82	73.27	73.22	73.36	74.07	74.44	74.62	74.7	74.77	75.1	75.35	75.43	75.31	74.81	73.84	72.73	71.67	70.67	69.61	68.72	68.84	116.83
5000	69.39	72.14	72.46	72.96	72.86	72.84	73.63	73.91	73.89	73.84	73.45	73.4	73.45	73.11	72.46	71.53	70.34	69.23	68.28	67.44	66.56	65.85	66	115.39
6300	78.76	71.88	72.23	72.74	72.59	72.87	73.52	73.81	73.71	73.43	72.61	72.52	72.49	71.93	70.89	69.6	68.22	67	65.99	65.14	64.31	63.7	63.97	115.23
8000	69.59	72.37	72.75	73.26	72.83	73.03	73.97	74.15	73.99	73.65	72.51	72.36	72.43	71.75	70.34	68.87	67.13	65.88	64.87	64.06	63.32	62.8	63.01	114.94
10000	72.13	71.01	71.07	72.18	72.49	72.48	72.57	72.7	72.5	71.74	70.44	69.61	69.94	69.71	68.43	66.77	65.32	63.92	62.57	61.44	60.47	59.79	59.89	113.49
OASPL	85.29	86.86	87.15	87.27	87.35	87.55	88.02	88.43	88.65	88.76	88.87	89.24	89.59	89.77	89.83	89.55	88.76	87.97	87.34	86.88	86.62	86.66	87.21	131.25

NASA Lewis Allison AST Jet Noise Test 1996

rdg 366
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
ambrc 35.02
amixb 78.39
scale 4
vid 612.31
m01 0.30083
pamb 14.2555
tamb 493.855
rhumid 82.97
windel 0
nprc 1.395
nprb 1.441
ptc 19.8864
ptb 20.5422
wactc 2.725
wactb 12.97
ttc 1181.23
ttb 505.447
ptmix 20.4283
ttmix 622.778
mixpnd 0.663913
grevisp 12749.2
badchan (26)
bkgnd 352
acqdate 02.Dec.96
acqtime 22:51:56
DADSdate 02.Dec.96
DADStime 22:51:56
bichdate 02.Dec.96
bichtime 22:51:56
''Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 03:45:37 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1656.07	1598.27	1552.91	1523.14	1505.73	1500
yaw angle	55	60	65	70	75	80	85	90
roll angle (	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90
64	0	44.87	46.01	48.21	47.57	47.75	47.64	47.7
80	0	47.31	47.65	48.63	49.02	49.01	49.83	51.99
100	42.6	45.38	45.73	47.72	47.57	49.16	48.45	49.47
130	44.77	46.08	47.41	47.87	48.85	48.85	48.47	49.79
160	46.03	47.58	47.98	49.14	50.19	51.26	52.48	50.2
200	48.31	50.4	52.39	53.37	53.88	54.12	54.1	52.66
250	48.13	48.92	50.53	50.75	51.48	52.25	53.22	54.06
320	46.8	49.85	51.53	52.61	52.85	53.66	54.1	54.03
400	47.63	50.55	51.63	52.15	52.87	53.5	53.99	54.73
500	47.61	51.3	52.16	52.76	53.19	53.89	54.67	54.4
630	47.76	52.23	52.6	52.72	53.37	53.56	54.2	55.44
800	48.05	52.07	52.76	52.86	53.29	53.61	54.18	54.78
1000	47.67	51.43	52.06	52.33	52.7	53.1	53.45	54.72
1300	46.85	50.34	51.07	51.27	51.5	51.95	52.56	53.85
1600	45.12	48.42	49.2	49.61	50.04	50.43	51	52.97
2000	42.07	44.9	45.99	46.65	47.25	47.67	48.23	51.44
2500	37.99	40.86	41.9	43.35	43.65	44.17	45.06	48.7
3200	32.79	36.61	37.87	39.25	39.55	40.18	41.25	45.49
4000	24.82	29.48	31.2	32.74	33.41	34.25	35.37	41.51
5000	24.14	16.63	20.44	23.3	24.4	25.54	27.47	35.97
6300	0	0	0	0	0	0	0	27.99
8000	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0
OASPL	58.28	61.66	62.55	63.1	63.63	64.16	64.66	65.35
PNL	67.74	71.2	72.11	72.72	73.21	73.71	74.29	74.9

distance: (	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.86	49.25	48.91	48.57	50.05	48.26	47.06	46.68	46.66	48.69	46.34	46.46	45.87	44.35	47.04	112.63
80	51.05	49.99	50.32	49.15	47.92	50.01	49.83	49.83	49.53	50.65	48.83	48.23	47.69	47.33	46.37	114.27
100	49.51	50	49.1	50.4	50.18	49.56	50.54	50.19	49.53	50.22	50.24	49.82	49.16	48.17	46.75	114.42
130	49.06	50.17	49.73	50.68	50.74	51.47	50.53	51	49.98	49.07	49.86	49.31	48.18	46.58	44.23	114.45
160	50.77	50.88	51.41	51.87	51.92	53.03	52.63	54.08	53.49	53.65	49.77	48.47	46.7	44.7	43.45	115.91
200	54.27	55.36	55.88	55.85	56.19	56.36	56.03	54.82	53.82	52.09	52.03	50.11	48.59	45.99	42.8	118.41
250	53.68	52.97	52.46	53.19	53.6	53.63	53.37	52.92	52	50.49	50.53	48.34	45.81	42.9	39.7	116.44
320	54.8	55	55.2	55.09	55.02	54.87	54.8	54.29	53.17	51.64	49.01	46.73	44.39	41.28	37.98	117.5
400	55.29	55.62	55.78	55.86	55.45	54.93	54.25	52.81	51.02	49.21	49.37	47.05	44.15	40.6	36.4	117.42
500	54.81	55.08	54.99	55.24	54.96	54.28	53.39	52.24	50.54	48.75	47.37	44.89	41.95	38.37	34.2	117.05
630	56.53	55.4	54.97	54.84	54.53	54.11	53.32	52.17	50.45	48.19	46.5	43.82	40.62	36.94	32.2	117.07
800	54.88	54.68	54.78	54.72	54.5	54.09	53.78	52.58	50.13	47.27	45.68	42.55	39.06	35.01	30.04	116.88
1000	54.93	54.85	54.7	54.84	54.94	54.78	54	52.62	50.36	47.49	44.41	41.58	38.16	33.9	28.34	116.9
1300	54.2	54.28	54.22	54.57	54.55	54.33	53.75	52.33	49.88	47.01	44.32	40.83	36.98	32.18	26.18	116.18
1600	53.17	53.37	53.51	53.77	53.96	53.61	52.95	51.54	48.7	45.49	43.93	40.37	38.18	31.11	24.5	115.16
2000	51.47	51.47	51.59	51.89	51.82	51.29	50.51	49.05	46.3	43.15	42.19	38.71	34.42	28.86	21.57	112.94
2500	48.84	48.72	48.66	48.7	48.35	47.62	48.55	44.79	41.95	38.75	39.77	35.92	31.29	25.42	12.17	109.61
3200	45.56	45.35	44.81	44.52	43.81	42.56	40.71	38.34	35.25	31.76	35.1	30.93	25.8	15.88	0	105.39
4000	41.24	40.93	40.07	39.14	38.27	36.71	34.55	31.47	27.99	23.4	27.91	22.73	9.01	0	0	100.16
5000	35.88	35.41	34.16	33.41	32.42	30.43	27.34	22.78	14.83	0	14.59	0	0	0	0	93.96
6300	27.83	27.05	24.86	23.37	21.38	17.25	0	0	0	0	0	0	0	0	0	84.51
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	65.85	65.74	65.74	65.86	65.84	65.66	65.15	64.35	62.9	61.69	60.42	58.77	57.07	55.15	53.71	128.26
PNL	75.06	75.07	75.03	75.17	75.09	74.69	73.94	72.87	70.32	67.79	65.12	62.12	58.81	54.64	49.31	73.27

NASA Lewis Allison AST Jet Noise Test 1996

rdg 367
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
netrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 963.9
m01 0.30011
pamb 14.2555
tamb 493.784
rhumid 82.35
winds1 0
nprc 1.549
nprb 1.613
ptc 22.0818
ptb 22.9941
wactc 3.169
wactb 15.397
ttc 1326.94
ttb 505.501
ptmix 22.6384
ttmix 645.711
mixpnd 0.773693
grsvixp 17895.8
badchan (25)
bkgnd 352
acqdate 02.Dec.96
acqtime 22:55:03
DADSdate 02.Dec.96
DADStime 22:55:03
btchdate 02.Dec.96
btchtime 22:55:03
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 03:48:30 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	68.9	69.02	69.43	70.09	70.87	71.68	72.47	73.2	73.83	74.34	74.74	75.09
100	72.57	72.65	72.1	72.16	73.18	74.29	73.85	73.14	73.42	74.02	74.55	74.98
130	71.52	72.99	73.48	73.39	73.03	72.58	72.21	71.99	72	72.28	72.83	73.59
160	72.54	73.47	73.77	73.87	73.99	74.23	74.47	74.55	74.6	74.99	75.98	77.29
200	73.25	74.54	75.28	75.51	75.44	75.42	75.66	75.93	75.95	76.09	76.49	77.04
250	74.09	75.22	75.82	76.46	76.99	77.42	77.65	77.76	77.94	78.23	78.86	79.15
320	75.74	76.99	77.78	77.96	77.71	77.78	77.9	78.03	78.19	78.52	78.74	78.73
400	75.35	76.47	77	77.2	77.48	78.16	78.79	79.12	79.36	78.67	80.01	80.26
500	76.82	78.04	78.19	78.07	78.18	78.46	78.89	79.39	79.93	80.45	80.85	80.96
630	76.68	78.96	78.88	78.26	78.32	78.97	79.7	80.07	80.11	80.21	80.36	80.49
800	78.59	80.67	80.57	79.87	79.78	80.13	80.75	81.36	81.82	82.18	82.4	82.33
1000	79.5	81.59	80.8	79.92	80.06	80.91	81.74	82.25	82.52	82.65	82.77	82.79
1300	80.61	82.82	82.24	81.35	81.21	81.77	82.62	83.38	83.82	83.92	83.95	84.22
1600	81.09	83.51	82.9	81.95	81.94	82.49	83.22	83.9	84.44	84.83	85.01	85.09
2000	80.94	83.05	82.59	81.67	81.96	82.65	83.46	84.15	84.62	84.92	85.49	86.15
2500	80.07	82.22	82.05	81.53	81.59	82.35	83.37	84.04	84.29	84.78	85.6	86.54
3200	78.71	80.79	80.84	80.57	80.6	81.28	82.16	82.96	83.66	84.44	85.34	86.24
4000	76.52	78.59	78.81	78.69	78.98	79.75	80.63	81.23	81.92	82.75	83.83	85.06
5000	74.97	77.1	77.48	77.22	76.66	77.83	79.11	78.58	79.92	80.88	81.71	82.46
6300	74.59	76.53	76.56	76.67	75.85	76.9	77.89	78.33	78.72	79.38	79.69	79.97
8000	74.14	76.32	76.11	76.19	74.96	76.17	76.91	77.17	77.68	78.27	78.51	78.55
10000	73.16	74.16	73.59	74.4	73.47	75.13	74.32	74.37	74.98	75.54	75.48	74.77
OASPL	90.51	92.49	92.3	91.87	91.84	92.49	93.2	93.74	94.16	94.58	95.07	95.59

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	75.43	75.8	76.25	76.78	77.43	78.2	79.09	80.09	81.3	82.94	85.45	118.83
100	75.39	75.83	76.32	76.91	77.81	78.45	79.42	80.5	81.75	83.36	85.72	119.29
130	74.49	75.46	76.46	77.46	78.44	79.41	80.36	81.27	82.22	83.38	85.05	119.28
160	77.1	77.41	78.26	79.19	80.18	81.25	82.28	83.17	83.9	84.56	85.19	121.05
200	77.85	78.19	78.67	79.15	79.88	80.29	80.93	81.5	81.96	82.31	82.49	120.75
250	79.63	80.06	80.56	81.16	81.75	82.29	82.67	82.84	82.81	82.61	82.15	122.39
320	79.47	80.27	80.72	80.92	80.96	80.93	80.69	80.8	80.66	80.52	80.32	122.09
400	80.84	81.06	80.92	80.91	81.19	81.17	80.76	80.24	79.8	79	78.48	122.47
500	81.06	81.41	81.56	81.31	80.94	80.6	80.24	79.74	79.12	78.51	77.95	122.83
630	80.89	81.21	81.32	81.15	80.7	80.21	79.67	78.82	78.05	77.27	76.68	122.78
800	82.24	82.07	81.78	81.27	80.48	79.71	79.04	78.38	77.66	76.86	76.25	123.9
1000	82.73	82.81	82.24	81.47	80.6	79.87	79.13	78.15	77.06	76.2	75.65	124.37
1300	84.28	84.48	84.25	83.24	81.83	80.51	79.37	78.3	77.4	76.77	76.42	125.87
1600	85.44	85.59	85.06	83.82	82.24	80.81	79.58	78.44	77.44	76.77	76.64	126.42
2000	86.21	86.32	86.12	85.11	83.37	81.51	79.95	78.76	77.81	76.94	76.71	126.89
2500	87.1	86.99	86.65	85.85	83.82	81.85	80.25	78.86	77.71	77.02	77.07	127.06
3200	86.81	86.99	86.66	85.64	84.01	82.18	80.5	79.16	78.1	77.37	77.43	126.85
4000	85.5	85.12	84.66	84.02	82.62	81.09	79.67	78.36	77.23	76.54	76.9	125.07
5000	82.8	82.22	81.85	80.86	79.51	78.12	76.94	75.98	75.16	74.62	75.01	122.86
6300	80.02	79.43	78.7	77.87	76.44	74.96	73.76	72.79	72.06	71.7	72.24	120.7
8000	77.98	78.94	75.93	74.99	73.8	72.59	71.53	70.65	69.93	69.47	69.82	119.29
10000	73.89	73.01	72.35	71.78	70.87	69.81	68.29	67.16	66.28	65.73	66.01	116.53
OASPL	95.87	95.91	95.7	95.11	94.21	93.51	93.09	92.87	92.83	93.07	93.87	136.92

NASA Lewis Allison AST Jet Noise Test 1996

rdg 367
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld MD20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 963.9
m01 0.30011
pamb 14.2555
tamb 493.784
rhumid 82.35
winds1 0
nprc 1.549
nprb 1.613
ptc 22.0818
ptb 22.9941
wactc 3.169
wactb 15.397
ttc 1326.94
ttb 505.501
ptmix 22.8384
ttmix 645.711
mixpnd 0.773693
grsvbp 17895.8
badchan (25)
bkgnd 352
acqdate 02.Dec.96
acqtime 22:55:03
DADSdate 02.Dec.96
DADStime 22:55:03
btchdate 02.Dec.96
btchtime 22:55:03
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 03:48:38 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (f	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.27	48.79	48.98	52.7	52.09	51.8	51.65	53.16	55.28	54.82	54.53	54.3	56.11	55	54.06	53.51	53.05	55.03	54.36	53.77	52.51	51.48	54.08	118.79
80	48.94	51.09	50.61	49.88	52.69	52.51	52.77	53.07	51.65	51.42	53.73	53.33	52.31	54.46	54.64	54.78	54.2	55.81	54.89	54.29	53.65	53.1	52.6	118.76
100	50.76	51.67	51.91	52.79	52.1	53.47	52.87	51.88	51.52	53.14	52.97	54.47	53.97	54.17	56.52	56.57	56.24	57.42	55.53	55.08	54.42	53.62	52.74	119.68
130	50.46	51.59	52.98	53.12	54.37	55.45	56.04	54.37	53.63	55.05	55.34	56.95	56.17	56.38	55.79	56.74	56.13	55.27	57.32	56.9	55.86	54.32	52.11	120.64
160	51.34	53.31	53.8	54.41	54.95	56.18	57.52	55.65	55.85	55.32	55.98	56.98	56.86	57.68	57.27	58.08	57.8	58.38	55.9	55.07	53.75	51.97	50.27	121.04
200	52.54	54.44	56.49	57.34	57.41	57.78	57.48	57.33	58.05	58.94	59.53	59.07	59.48	59.67	59.58	58.78	58.13	56.89	57.54	56.22	55.02	52.65	49.22	122.52
250	52.76	54.28	54.85	54.91	55.63	56.88	57.48	57.41	57.11	56.86	56.74	57	57.32	57.95	57.81	57.51	57.21	56.33	55.59	53.81	52.28	49.84	46.66	120.95
320	52.04	54.77	55.8	56.5	56.37	57.05	57.52	58.19	58.84	58.04	59	58.92	59.35	59.15	58.79	57.98	56.75	55.51	54.96	52.92	50.61	47.62	44.26	121.82
400	52.79	54.67	55.54	55.9	56.39	56.96	57.91	58.13	58.69	58.98	59.44	59.29	58.96	58.55	58.1	57.16	55.83	54.26	53.66	51.63	49.25	46.2	42.11	121.27
500	52.47	55.65	56.17	56.04	56.64	57.68	58.45	58.41	58.49	58.82	58.96	58.93	58.75	58.32	57.61	56.58	55.04	53.32	52.61	50.28	47.45	43.98	39.77	121.08
630	53.79	57.03	57.11	56.53	57.08	57.97	59.07	59.28	59.67	59.64	59.78	59.59	59.28	58.63	57.99	56.29	54.43	52.53	51.29	48.89	45.98	42.36	37.43	121.54
800	54.21	57.37	57.35	56.9	57.2	58.24	58.33	59.69	59.96	59.98	60.2	60.21	59.96	59.37	58.51	57.06	54.76	52.41	50.51	47.75	44.36	40.38	35.54	121.88
1000	54.35	57.28	57.37	57.13	57.65	58.45	59.4	60.32	60.77	60.91	60.83	60.7	60.62	60.4	59.22	57.29	54.78	52.05	49.81	46.91	43.54	39.56	34.12	122.35
1300	53.96	57.09	57.25	56.83	57.1	58.04	59.1	60.28	60.87	61.12	61.17	61.33	61.17	60.64	59.61	57.68	55	51.88	49.28	46.05	42.39	37.96	32.28	122.47
1600	52.46	55.43	55.64	55.51	56.09	57.09	58.1	59.85	60.19	60.39	60.75	61.1	61.06	60.59	59.55	57.78	54.62	51.21	48.56	45.24	41.41	36.45	30.05	121.95
2000	49.73	52.74	53.38	53.37	53.7	54.63	55.61	58.77	58.99	59.32	60.01	60.55	60.44	59.88	58.5	56.47	53.49	50.03	47.71	43.89	39.52	34.47	27.65	120.78
2500	45.35	48.28	49.07	49.34	49.88	50.85	51.78	56.27	56.76	57.28	57.71	58.19	58.02	57.06	56.54	53.47	50.39	46.81	46.28	42.17	37.55	31.68	23.85	118.06
3200	38.9	42.14	43.4	43.91	44.16	45.53	46.85	52.38	52.81	53.27	53.85	54.29	53.78	52.18	50.21	47.84	44.54	40.74	42.92	38.52	33.2	26.58	12.92	113.84
4000	30.84	34.43	36.1	37.05	37.12	38.73	40.1	47.27	47.36	47.69	48.03	47.86	46.81	45.2	43.18	40.48	36.65	32.34	38.57	31.82	25.76	13.94	0	107.35
5000	17.13	23.59	25.88	27.57	27.64	29.44	30.97	40.62	40.93	41.24	41	40.37	39.1	36.88	33.91	30.67	26.16	19.9	27.45	20.31	0	0	0	99.86
6300	0	0	0	0	0	0	0.88	31.4	31.75	31.89	31.29	30	27.5	23.95	19.15	2.66	0	0	0	0	0	0	0	89.46
8000	0	0	0	0	0	0	0	6.97	5.6	6.53	0	0	0	0	0	0	0	0	0	0	0	0	0	86.59
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.36
OASPL	64.41	66.83	67.41	67.54	67.95	68.79	68.54	70.25	70.61	70.86	71.11	71.27	71.19	70.9	70.25	69.25	67.85	66.97	66.19	64.87	63.4	61.64	60.38	133.45
PNL	74.67	77.5	77.94	77.99	78.48	79.43	80.33	81.07	81.36	81.67	82.11	82.44	82.27	81.65	80.61	78.95	76.54	74	71.3	68.22	65.36	62	57.57	79.78

NASA Lewis Allison AST Jet Noise Test 1996

rdg	368
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	76.39
scale	4
vid	998.25
m01	0.3004
pamb	14.2567
tamb	493.662
rhumid	82.14
winds1	0
nprc	1.747
nprb	1.826
ptc	24.9065
ptb	26.0327
wactc	3.384
wactb	17.891
ttc	1409.63
ttb	505.969
ptmix	25.8536
ttmix	649.705
mixpnd	0.798798
grsvixp	21237.8
badchan	(26)
bkgnd	352
escdate	02.Dec.96
esctime	22:56:52
DADSdate	02.Dec.96
DADStime	22:56:52
btchdate	02.Dec.96
btchtime	22:56:52

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 03:51:36 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	74.97	75.07	75.26	75.5	75.79	76.11	76.45	76.82	77.21	77.6	78.01	78.44	78.93	79.52	80.24	81.09	82.11	83.29	84.67	86.3	88.2	90.54	93.74	124.35
100	76.36	77.25	77.68	77.79	77.72	77.59	77.47	77.42	77.48	77.65	77.96	78.42	79.03	79.81	80.77	81.9	83.21	84.7	86.39	88.29	90.35	92.8	95.2	125.83
130	76.95	77.88	78.19	78.11	77.85	77.52	77.23	77.04	76.99	77.13	77.46	78	78.72	79.62	80.66	81.84	83.14	84.56	86.13	87.84	89.63	91.49	93.45	125.25
160	77.69	77.98	78.18	78.32	78.46	78.63	78.86	79.15	79.49	79.89	80.33	80.84	81.43	82.14	82.96	83.86	84.91	86.04	87.31	88.72	90.14	91.53	92.75	126.31
200	78.76	79.21	79.49	79.67	79.79	79.88	79.99	80.17	80.44	80.82	81.34	81.66	81.64	82.51	83.87	85.01	85.78	86.39	87.04	87.86	88.73	89.59	90.3	126.26
250	78.25	79.6	80.33	80.65	80.74	80.71	80.74	80.96	81.26	81.49	82	82.64	83.8	84.65	85.24	85.71	86.26	86.89	87.59	88.35	89.07	89.71	90.15	127
320	79.91	80.82	81.24	81.39	81.47	81.43	81.1	81.12	81.18	81.36	81.71	82.29	83.06	83.99	85.11	85.82	85.87	86.21	86.7	86.83	86.78	86.79	86.79	126.41
400	79.46	80.15	80.82	81.33	81.57	81.81	82.41	82.32	82.23	83.03	83.85	83.95	84.35	84.86	85.52	86.15	86.11	85.84	85.69	85.76	85.58	84.88	84.23	126.67
500	79.89	81.14	81.64	81.76	81.79	81.91	82.24	82.8	83.19	83.16	83.21	83.64	84.49	85.35	85.96	86.22	86.18	86.14	85.95	85.5	84.82	84.08	83.8	126.81
630	80.24	81.68	82.29	82.48	82.52	82.65	82.8	82.79	83.12	83.42	83.78	84.53	84.95	85.2	85.55	85.78	85.44	84.99	84.62	84.18	83.63	82.88	82.1	126.73
800	81.46	83.54	83.86	83.89	83.97	83.98	84.08	84.2	84.51	85.05	85.49	86.05	86.38	86.33	86.27	86.08	85.38	84.92	84.56	84.04	83.22	82.21	81.25	127.74
1000	82.92	84.64	85.23	85.16	85.09	85.09	85.1	85.38	85.63	85.7	86.05	86.74	87.39	87.47	86.99	86.23	85.41	84.68	83.98	83.22	82.33	81.45	80.9	128.49
1300	83.76	85.92	86.28	86.35	86.37	86.37	86.38	86.69	86.81	86.86	87.36	87.98	88.7	88.6	88.03	86.84	85.69	84.63	84.14	83.26	82.34	81.57	81.23	129.56
1600	84.92	87.05	87.38	87.61	87.77	87.72	87.7	87.99	88.23	88.48	89.04	89.93	90.79	90.89	89.96	88.39	86.7	85.38	84.38	83.46	82.6	81.97	81.83	131.07
2000	85.35	87.95	88.47	88.56	88.42	88.43	88.62	89	89.3	89.7	90.81	91.87	92.61	92.67	91.59	89.83	88.03	86.4	84.99	83.82	82.89	82.29	82.29	132.36
2500	86.15	88.57	89.1	89.3	89.48	89.69	89.96	90.15	90.47	91.18	92.21	93.42	94.8	94.77	93.46	91.47	89.23	87.34	85.82	84.61	83.61	82.98	82.96	133.87
3200	86.96	89.41	90.17	90.49	90.34	90.44	91.13	91.39	92	92.79	93.91	95.29	96.41	96	94.82	92.85	90.72	88.65	86.94	85.84	84.86	83.95	83.87	135.24
4000	86.83	89.91	90.62	90.66	90.46	90.71	91.68	92	92.63	93.53	94.84	96.14	96.68	96.08	94.75	93.11	91.29	89.44	87.68	86.2	84.97	84.14	84.14	135.7
5000	86.31	89.52	90.15	90.12	89.89	90.17	91.01	91.57	92.17	93.09	94.6	95.77	96.06	95.32	94.06	92.54	90.88	88.84	87.22	85.89	84.84	84.21	84.36	135.17
6300	86.09	89.44	90.05	89.75	89.22	89.61	90.73	91.11	91.52	92.4	93.4	94.43	94.97	94.41	93.05	91.4	89.72	88.01	86.45	85.29	84.4	83.82	84.03	134.34
8000	85.96	89.65	90.08	89.96	89.32	88.67	90.62	90.77	90.81	91.31	92.48	93.55	93.74	93.07	91.57	89.7	88.06	86.66	85.43	84.45	83.57	82.89	83.04	133.55
10000	85.15	87.78	87.93	88.43	88.37	88.34	88.29	88.27	88.13	88.17	89.28	89.75	88.87	89.55	88.37	86.76	85.45	83.9	82.33	81.27	80.42	79.6	79.45	130.79
OASPL	96.89	99.45	99.97	100.08	99.89	100.08	100.6	100.88	101.24	101.86	102.91	103.98	104.84	104.33	103.29	102.01	100.75	99.82	99.35	99.33	99.69	100.47	101.83	144.53

NASA Lewis Allison AST Jet Noise Test 1996

rdg	368
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nabbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	MD20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	998.25
m01	0.3004
pamb	14.2567
tamb	493.862
rhumid	82.14
winds1	0
nprc	1.747
nprb	1.826
ptc	24.9065
ptb	26.0327
wactc	3.384
wactb	17.891
ttc	1409.63
ttb	505.989
ptmix	25.8536
ttmix	649.705
mixpnd	0.798798
grsvixp	21237.8
badchan	{26}
bkgnd	352
escdate	02.Dec.96
esctime	22:56:52
DADSdate	02.Dec.96
DADStime	22:56:52
btchdate	02.Dec.96
btchtime	22:56:52

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 03:51:46 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (f	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	54.8	54.26	54.16	57.11	56.18	55.88	55.4	58.78	58.65	58.09	57.8	57.59	59.63	58.76	58.3	58.33	58.62	61.28	59.94	59.95	59.39	59.05	63.17	124.34
80	52.38	55.98	56.59	56.7	57.69	57.32	57.71	57.35	55.82	55.12	57.49	57.14	56.39	58.58	58.9	59.27	59.04	60.95	61.91	62.05	62.08	62.06	61.82	125.15
100	55.9	56.46	58.66	57.56	56.89	57.93	57.15	56.92	56.55	57.6	57.25	59.16	59.1	59.16	61.09	61.24	61.2	62.25	61.26	61.65	61.86	61.78	61.17	125.51
130	55.91	56.1	57.56	57.74	58.97	59.84	59.39	58.97	58.69	60.22	59.97	60.91	59.97	60.71	61.09	62.53	62.21	61.48	62.36	62.45	62.08	61.25	59.74	126.09
160	56.51	57.86	57.74	58.59	59.34	59.95	60.71	59.9	60.23	59.86	60.51	61.3	61.33	62.61	62.63	63.16	62.76	63.1	62.03	61.42	60.5	59.22	58.3	126.19
200	56.82	58.22	59.76	60.71	61.29	61.43	60.73	60.55	61.45	62.01	62.4	62.38	62.91	63.22	63.72	63.45	62.76	61.82	62.5	61.72	61.39	59.75	57.02	126.86
250	57.14	58.25	58.55	58.58	59.5	60.19	61.28	60.51	60.04	59.93	60.31	60.87	61.35	61.76	62.48	63.05	62.34	61.06	61.34	59.93	58.21	55.96	53.05	125.44
320	56.15	58	59.24	60.14	60.22	60.68	60.89	61.4	61.71	62.27	62.36	62.18	62.95	63.19	63.11	62.75	61.95	61.04	59.87	58.43	56.53	53.41	49.82	125.69
400	56.16	57.74	58.9	58.61	60.01	60.46	60.99	61.54	61.92	62.03	62.01	62.06	62.57	62.52	62.33	61.76	60.59	59.11	59.42	57.61	55.07	51.85	48.01	125.11
500	55.97	58.34	59.56	60.21	60.67	61.28	61.76	61.13	61.42	61.85	62.05	62.68	62.75	62.43	62.04	61.51	60.03	58.64	57.57	55.55	53.03	49.58	45.21	124.95
630	56.86	59.9	60.93	61.45	61.86	62.05	62.31	62.1	62.41	62.98	63.18	63.65	63.7	63.29	62.39	61.06	59.44	57.45	56.87	54.56	51.53	47.75	42.53	125.53
800	57.39	60.37	61.42	61.83	62.24	62.76	63.16	62.81	63.16	63.19	63.75	63.99	64.36	64.05	62.86	60.81	58.73	58.73	55.39	52.78	48.57	45.54	40.45	125.95
1000	57.41	60.71	61.86	62.73	63.43	63.82	63.84	63.63	63.83	63.94	64.36	64.98	65.61	65.37	63.73	61.58	59.09	58.57	54.58	51.89	48.44	44.29	38.9	126.65
1300	57.98	60.84	61.93	62.67	63.25	63.64	64.13	64.37	64.89	64.85	65.48	66.19	66.56	66.41	65.01	62.35	58.59	58.87	54.04	51.07	47.58	43.17	37.48	127.33
1600	57.07	60.65	62	62.8	63.38	63.93	64.42	64.67	65.04	65.53	66.33	67.38	68.22	67.67	65.77	63.13	59.85	58.55	53.57	50.26	48.46	41.84	35.65	128.04
2000	56.11	59.65	61.17	61.99	62.57	63.19	64.18	64.83	65.36	66.06	67.09	68.13	68.92	68.18	66.05	63.23	59.87	56.27	53.21	49.64	45.45	40.33	33.49	128.27
2500	53.86	57.49	59.34	60.51	60.83	61.38	62.56	64.83	65.3	66.09	67.02	68.03	68.59	67.33	64.9	62.01	58.8	54.88	52.54	48.81	44.08	38.33	30.41	127.62
3200	49.28	53.93	55.63	56.52	56.68	57.56	58.82	63.03	63.62	64.37	65.42	66.14	65.87	64.33	61.77	58.64	55.07	50.98	50.78	46.25	40.87	34.11	24.78	125.13
4000	42.14	46.97	48.91	49.82	50.27	51.31	52.69	59.2	59.69	60.23	61.23	61.78	61.13	59.35	56.78	53.44	49.46	44.97	46.51	41.44	35.38	27.49	2.81	120.5
5000	31.48	37.22	38.81	41.17	41.71	42.74	44.41	53.31	53.74	54.29	54.72	55.05	54.51	52.42	49.18	45.12	40.63	35.64	39.8	33.96	26.59	9.18	0	113.82
6300	3.03	21.44	24.95	27.13	28.06	29.54	30.47	44.93	44.92	44.91	45.31	45.19	43.83	41.21	37.32	32.82	27.18	18.16	29.8	21.77	0	0	0	103.92
8000	0	0	0	0	0	0	0	30.52	30.01	29.01	28.78	27.01	24.53	21.18	13.15	0	0	0	0	0	0	0	0	87.25
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	68.89	71.05	72.16	72.9	73.41	73.88	74.3	74.8	75.17	75.8	76.22	76.9	77.31	76.86	75.73	74.49	73.04	72.21	71.74	70.93	70.1	69.07	68.73	138.87
PNL	79.73	82.84	84.2	86.01	85.55	86.12	86.86	87.4	87.88	88.46	89.22	90.01	90.39	89.51	87.75	85.55	82.91	80.26	77.7	74.82	72.38	69.44	65.83	86.81

50%L, 20DH

150 ft Polar: SPL(θ, f), OASPL(θ), PWL(f), OAPWL
1500 ft Flyover: SPL(θ, f), OASPL(θ), PNL(θ), EPNL, PWL(f), OAPWL
Operating Conditions: A, B, C, D, E, F, G, H, I, J, K, L

NASA Lewis Allison AST Jet Noise Test 1996

rdg	250
run	1
test_prog	Allison96
test_num	5
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	579.68
m01	0.017
pamb	14.4814
tamb	495.844
rhumid	63.58
winds1	0
nprc	1.175
nprb	1.214
ptc	16.9921
ptb	17.5561
wactc	1.753
wactb	9.728
ttc	1094.32
ttb	495.616
ptmix	17.47
ttmix	587.03
mixpnd	0.487993
grsvixp	6655.31
badchan	(26)
bkgnd	245
eacdate	22.Nov.96
eactime	19:23:53
DADSdate	22.Nov.96
DADStime	19:23:53
blchdate	22.Nov.96
blchtime	19:23:53

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:13:33 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	61.51	62.91	64.03	64.93	65.66	66.26	66.8	67.33	67.9	68.57	69.38	70.36	71.46	72.64	73.85	75.02	76.1	77.04	77.78	78.27	78.45	78.28	0	115.41
100	63.71	65.05	66.06	66.81	67.35	67.77	68.1	68.44	68.83	69.34	70.04	70.97	72.05	73.23	74.42	75.56	76.56	77.38	77.88	78.04	77.78	77.01	0	115.7
130	64.67	65.33	65.6	65.87	65.7	65.83	66.06	66.48	67.07	67.86	68.87	70.09	71.45	72.89	74.33	75.7	76.92	77.88	78.41	78.34	77.48	75.69	0	115.51
160	65.39	66.37	66.91	67.22	67.49	67.85	68.31	68.85	69.45	70.07	70.68	71.26	71.87	72.55	73.33	74.23	75.27	76.36	76.99	76.6	75.6	74.9	0	114.93
200	65.96	66.88	67.6	68.18	68.71	69.23	69.81	70.44	71.11	71.81	72.57	73.35	74.01	74.44	74.86	75.46	75.98	76.16	75.85	74.96	73.64	72.26	0	115.59
250	66.99	68.25	69.33	70.26	71.07	71.79	72.45	73.09	73.75	74.46	75.26	76.16	77.08	77.92	78.54	78.74	78.52	77.97	77.23	76.34	75.2	73.49	0	118.19
320	66.87	68.12	69.03	69.7	70.2	70.61	71.01	71.47	72.06	72.82	73.81	75.02	76.2	77.07	77.52	77.91	78.12	77.51	76.17	74.33	72.5	71.19	0	117.15
400	65.96	67.41	68.57	69.57	70.5	71.41	72.25	72.86	73.24	73.7	74.54	75.32	75.6	76.42	76.49	76.35	75.51	74.48	73.68	72.12	70.44	69.14	0	116.46
500	66.2	67.71	68.95	70.05	70.96	71.65	72.23	72.64	73.25	74.29	75.01	76.09	77.19	78.03	78.4	76.23	77.31	75.88	74.4	72.82	70.98	69.3	0	117.52
630	65.49	67.23	68.86	70.39	71.2	71.65	72.2	72.76	73.3	73.84	74.52	75.35	76.24	77.06	77.29	76.82	75.6	74.06	72.79	71.62	70.02	69.34	0	116.71
800	65.42	67.48	69.17	70.62	71.15	71.17	71.45	72.31	73.26	73.91	74.69	75.72	76.44	76.83	76.86	75.85	74.52	73.03	71.7	70.68	69.21	67.92	0	116.4
1000	64.86	66.95	68.55	69.71	70.35	70.74	71.24	71.95	72.65	73.38	74.25	75.09	75.59	76.06	76.25	75.34	73.68	72.41	71.17	69.74	68.12	66.74	0	115.79
1300	64.04	66.42	68.2	69.38	70.06	70.43	70.86	71.42	72.29	72.99	73.64	74.37	75.07	75.61	75.55	74.62	73.14	71.63	70.37	68.96	67.3	65.72	0	115.24
1600	63.53	65.84	67.47	68.62	69.3	69.78	70.35	71.03	71.62	72.26	73.03	73.82	74.54	75.39	75.8	74.45	72	70.32	69.1	67.67	65.85	63.95	0	114.72
2000	62.84	65.48	67.23	68.25	68.83	69.48	69.98	70.69	71.33	71.84	72.45	73.11	73.56	73.87	73.93	72.87	70.64	69.43	67.74	66.05	64.43	62.87	0	113.79
2500	62.12	65.27	66.99	67.75	68.3	69.23	70.27	71.01	71.33	71.64	72.16	72.81	73.12	73.42	73.51	71.9	69.56	67.96	66.41	64.99	63.52	61.88	0	113.42
3200	61.57	64.86	66.78	67.84	68.43	69.25	70.33	70.87	71.09	71.65	72.16	72.73	72.95	73.37	73.22	71.14	68.87	67.15	65.55	63.96	62.04	60.3	0	113.23
4000	60.61	64.26	66.09	67.04	67.62	68.53	69.71	70.42	70.73	71.27	71.6	72.26	72.59	72.7	73.1	71.03	68.34	66.11	64.39	62.83	60.67	58.68	0	112.73
5000	59.45	63.67	65.22	65.58	65.97	67.45	69.25	70.05	70.04	70.6	71.15	71.85	72.13	71.99	72.01	70.12	67.37	65.02	63.17	61.17	58.73	57.23	0	112
6300	58.4	62.83	64.2	64.78	65.49	66.96	68.62	69.63	69.86	70.56	71.15	72	72.47	71.92	71.16	69.14	66.73	64.32	62.17	59.53	56.32	56.19	0	111.72
8000	57.67	62.36	64.19	64.92	65.32	66.85	68.81	69.66	70.07	70.86	71.71	72.62	72.8	71.96	71.02	68.99	67.09	64.4	61.91	58.95	55.4	55.64	0	111.93
10000	56.55	60.13	61.93	63.54	64.56	65.77	66.74	67.76	68.2	69.1	69.99	70.58	71.1	70.5	69.89	68.14	65.56	62.44	59.24	58.23	52.66	50.66	0	110.27
OASPL	77.46	79.34	80.68	81.65	82.29	82.91	83.64	84.29	84.82	85.48	86.21	87.06	87.75	88.33	88.83	88.34	87.87	87.48	87.1	86.49	85.61	84.58	0	128.62

NASA Lewis Allison AST Jet Noise Test 1996

rdg	250
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engin	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
ambxb	78.39
scale	4
vid	579.68
m01	0.017
pamb	14.4614
tamb	495.644
rhumid	63.58
winds1	0
nprc	1.175
nprb	1.214
ptc	16.9921
ptb	17.5561
wactc	1.753
wactb	9.728
ttc	1094.32
ttb	495.616
ptmix	17.47
ttmix	587.03
mixpnd	0.487993
grwexp	6655.31
badchan	(26)
bkgnd	245
aacdate	22.Nov.96
aactime	19:23:53
DADSdate	22.Nov.96
DADStime	19:23:53
btchdate	22.Nov.96
btchtime	19:23:53

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 01:13:39 1997

Data ambk 14.70 psia
Data ambk 537.0 R
Data ambk 70.00%
Data scale 1

distance (f	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.18	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency (	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	39.73	41.61	43.13	44.35	45.31	46.09	46.73	47.29	47.83	48.39	49.03	49.77	50.56	51.35	52.06	52.65	53.03	53.14	52.88	52.16	50.87	48.83	0	115.34
100	41.88	43.71	45.13	46.19	46.98	47.58	48	48.37	48.72	49.14	49.67	50.35	51.12	51.9	52.6	53.14	53.44	53.4	52.92	51.87	50.12	47.47	0	115.58
130	42.8	43.95	44.62	45.01	45.29	45.58	45.93	46.37	46.92	47.61	48.45	49.43	50.47	51.51	52.48	53.24	53.75	53.88	53.38	52.08	49.72	46.02	0	115.33
160	43.43	44.9	45.85	46.49	47	47.54	48.1	48.67	49.24	49.75	50.19	50.52	50.82	51.09	51.38	51.67	52	52.23	51.83	50.2	47.67	45.02	0	114.86
200	43.88	45.3	46.43	47.35	48.12	48.82	49.5	50.17	50.79	51.39	51.98	52.51	52.85	52.86	52.78	52.77	52.56	51.87	50.52	48.38	45.47	42.1	0	115.21
250	44.73	46.49	47.99	49.25	50.32	51.21	51.98	52.08	53.28	53.89	54.51	55.15	55.73	56.16	56.26	55.84	54.87	53.43	51.82	49.4	46.63	42.82	0	117.62
320	44.36	46.14	47.49	48.5	49.26	49.85	50.36	50.86	51.41	52.07	52.88	53.63	54.67	55.11	55.03	54.78	54.22	52.69	50.22	47.01	43.46	39.98	0	116.36
400	43.1	45.09	46.7	48.05	49.24	50.35	51.3	51.86	52.29	52.64	53.29	53.8	53.71	54.1	53.82	52.81	51.17	49.18	47.21	44.21	40.71	37.01	0	115.35
500	42.82	44.89	46.7	48.16	48.35	50.23	50.93	51.38	51.95	52.87	53.39	54.16	54.91	55.29	55.1	54.23	52.47	50.01	47.29	44.18	40.38	36.07	0	115.98
630	41.68	44.03	46.15	48.08	49.19	49.84	50.51	51.12	51.6	52.02	52.5	53.04	53.54	53.86	53.48	52.28	50.17	47.57	44.92	42.06	38.34	34.75	0	114.7
800	41.07	43.78	45.97	47.85	48.68	48.91	49.32	50.22	51.13	51.88	52.23	52.98	53.28	53.15	52.33	50.74	48.46	45.62	43.07	40.28	36.48	32.05	0	113.93
1000	39.95	42.7	44.84	46.43	47.39	48	48.63	49.39	50.05	50.64	51.29	51.8	51.89	51.83	51.33	49.8	46.95	44.44	41.68	38.32	34.22	29.44	0	112.77
1300	38.53	41.61	43.95	45.56	46.6	47.22	47.78	48.39	49.2	49.78	50.19	50.58	50.84	50.61	50.02	48.23	45.69	42.88	40.01	36.54	32.19	26.93	0	111.68
1600	37.31	40.36	42.58	44.21	45.25	45.99	46.72	47.43	47.97	48.47	48.99	49.42	49.68	49.93	49.59	47.32	43.75	40.68	37.72	34.08	29.35	23.44	0	110.54
2000	35.76	39.2	41.58	43.1	44.07	44.97	45.61	46.38	46.98	47.33	47.67	47.98	47.92	47.6	46.86	44.63	41.59	38.96	35.09	31.01	26.21	20.21	0	108.87
2500	33.85	37.85	40.24	41.55	42.51	43.72	44.93	45.72	45.99	46.13	46.38	46.61	46.36	45.96	45.2	42.54	38.88	35.85	32.01	27.89	22.63	10.98	0	107.45
3200	31.49	35.77	38.47	40.11	41.14	42.26	43.54	44.14	44.31	44.66	44.88	44.99	44.6	44.22	43.08	39.78	36.04	32.46	28.48	23.84	14.87	0	0	105.72
4000	27.81	32.59	35.3	36.95	38.08	39.3	40.88	41.46	41.7	42.01	41.95	42.11	41.76	40.94	40.25	38.78	32.34	27.93	23.22	12.54	0	0	0	102.79
5000	21.64	26.01	30.7	31.93	32.9	34.79	36.81	37.66	37.63	37.92	38.01	38.05	37.48	38.21	34.94	31.31	26.41	19.94	0	0	0	0	0	98.41
6300	0	17.93	22.74	24.99	26.7	28.78	30.7	31.8	31.82	32.23	32.29	32.31	31.69	29.88	27.39	22.26	7.98	0	0	0	0	0	0	92.23
8000	0	0	0	0	5.76	15.87	21.12	23.07	23.05	23.54	23.88	23.57	21.74	17.35	5.06	0	0	0	0	0	0	0	0	82.34
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	53.9	55.92	57.54	58.85	59.78	60.5	61.19	61.81	62.37	62.92	63.49	64.1	64.54	64.84	64.74	64.21	63.4	62.42	61.2	59.47	57.16	54.23	0	126.63
PNL	59.16	62.82	64.96	66.3	67.32	68.36	69.4	70.15	70.57	70.95	71.34	71.75	71.8	71.65	71.19	69.74	67.68	65.64	63.05	60.03	56.16	51.09	0	69.92

NASA Lewis Allison AST Jet Noise Test 1996

rdg 251
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 812.58
m01 0.01814
pamb 14.4637
tamb 495.811
rhumid 64.22
winds1 0
nprc 1.393
nprb 1.438
ptc 20.1479
ptb 20.7988
wactc 2.649
wactb 13.765
ttc 1159.21
ttb 496.237
ptmix 20.6938
ttmix 603.232
mixpnd 0 674807
gravixp 13337.7
badchan (26)
bkgnd 245
escdate 22.Nov.96
esctime 19:34:39
DADSdate 22.Nov.96
DADStime 19:34:39
btchdate 22.Nov.96
btchtime 19:34:39
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:15:45 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
80	71.68	72.76	73.66	74.47	75.15	75.77	76.33	76.86	77.4	77.96	78.56
100	74.56	75.83	76.7	77.26	77.58	77.74	77.84	77.96	78.18	78.6	79.3
130	74.99	75.96	76.56	76.86	76.98	76.98	76.98	77.04	77.25	77.69	78.44
160	75.69	76.29	76.6	77.28	77.76	78.26	78.79	79.36	79.98	80.65	81.37
200	77.01	77.31	77.55	77.8	78.19	78.72	79.26	79.68	79.98	80.37	81.05
250	76.64	77.31	77.79	78.2	78.64	79.17	79.78	80.45	81.17	81.98	82.92
320	76.87	77.53	77.93	78.32	78.88	79.46	79.82	80.26	80.81	81.63	81.78
400	75.73	76.74	77.69	78.44	79.08	79.86	80.81	81.37	82.16	82.85	83.59
500	76.34	77.41	77.99	78.38	78.85	79.57	80.33	80.83	81.35	82.12	83.03
630	75.58	76.87	77.9	78.74	79.4	79.67	80.19	80.52	81.03	81.66	82.44
800	75.67	77.24	78.35	79.13	79.61	80.14	80.86	81.28	81.86	82.62	83.15
1000	75.55	77.12	78.26	79.13	79.58	80.01	80.59	81.17	81.79	82.46	82.91
1300	75.47	77.37	78.4	79.02	79.55	80.05	80.79	81.27	81.89	82.44	83.28
1600	75.48	77.63	78.6	79.1	79.33	79.8	80.42	81.11	81.7	82.3	83.08
2000	74.67	77.11	78.3	78.87	79.43	80.14	80.58	81.05	81.7	82.5	83.25
2500	74.06	76.55	77.84	78.91	79.16	79.73	80.33	80.86	81.59	82.44	82.83
3200	73.23	76.12	77.59	78.32	78.81	79.31	80.06	80.6	81.21	82.12	82.49
4000	72.16	75.28	76.85	77.6	78.07	78.85	79.88	80.25	80.71	81.48	81.97
5000	71.55	74.72	75.89	75.91	76.19	77.32	78.83	79.56	79.82	80.58	81.25
6300	70.51	73.51	74.18	74.44	74.86	76.17	77.82	78.68	79.23	79.87	80.27
8000	69.33	72.14	73	73.3	73.87	75.31	77.05	77.85	78.48	79.36	80.08
10000	67.82	68.73	69.48	70.57	71.83	73.17	74.44	75.18	75.82	76.76	77.45
OASPL	88.13	89.63	90.53	91.11	91.59	92.18	92.88	93.4	93.96	94.67	95.31

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	110	115	120	125	130	135	140	145	150	155	160	165 PWL
80	79.25	80.08	81.12	82.41	84.03	86.02	88.29	90.52	92.36	93.45	93.47	0 127.42
100	80.33	81.62	83.1	84.69	86.3	87.86	89.28	90.47	91.36	91.83	91.78	0 127.48
130	79.54	80.91	82.44	84.04	85.59	87.04	88.36	89.56	90.84	91.19	90.06	0 126.64
160	82.16	83.05	84.05	85.19	86.45	87.6	89.12	90.21	90.86	90.64	89.95	0 127.42
200	82.12	83.39	84.53	85.39	86.14	87	87.9	88.38	87.91	86.85	86.04	0 126.27
250	83.73	84.34	85.37	86.36	87.24	87.98	88.48	88.37	87.26	85.69	84.17	0 126.84
320	83.37	83.79	84.94	85.84	86.24	86.31	86.56	86.38	84.84	82.56	81.14	0 125.78
400	84.26	84.81	85.56	85.72	85.56	86.52	86.41	85.01	82.73	80.74	79.76	0 125.97
500	83.58	84.25	84.78	85.24	85.59	85.86	85.56	84.14	81.95	79.91	78.23	0 125.42
630	83.4	84.36	84.98	85.06	84.89	85.14	84.46	82.95	81.25	79.55	77.74	0 125.08
800	83.67	84.3	84.83	85.15	84.63	84.37	83.95	82.87	80.73	78.84	77.48	0 125.19
1000	83.6	84.22	84.95	85.26	84.45	84.21	83.49	82.32	80.62	78.77	77.26	0 125.07
1300	83.82	84.59	85.52	85.5	84.75	83.79	83.07	81.86	80.19	78.54	77.31	0 125.2
1600	84.04	85.06	85.93	85.56	83.89	83.16	82.45	81.33	79.74	77.87	76.28	0 125.1
2000	84.11	85.14	86.45	86.09	83.47	82.57	82.07	80.96	79.21	77.16	75.36	0 125.16
2500	83.71	85.08	86.51	85.87	83.17	81.97	81.08	79.99	78.27	76.19	74.55	0 124.89
3200	83.14	84.08	85.37	84.88	82.3	81.1	80.05	78.77	76.81	74.48	73.07	0 124.16
4000	82.59	83.26	83.76	83.09	81.07	79.71	78.26	77.27	75.6	72.91	71.37	0 123.22
5000	81.79	82.26	82.26	81.37	79.5	78.18	76.72	75.51	73.74	71.26	69.46	0 122.05
6300	80.83	81.23	80.79	79.55	78.13	76.92	75.26	74.11	71.63	69.06	68.32	0 120.9
8000	80.7	80.34	79.46	78.21	77.02	75.92	73.71	72.25	69.71	67.19	66.65	0 120.08
10000	77.3	77.32	76.75	75.7	74.5	72.83	70.23	67.9	65.66	63.62	61.85	0 117.29
OASPL	96.08	96.87	97.74	97.96	97.74	98.17	98.63	98.96	99.09	99.07	98.49	0 138.65

NASA Lewis Allison AST Jet Noise Test 1996

rdg	251
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	812.58
m01	0.01814
pamb	14.4637
tamb	495.611
rhumid	84.22
winds1	0
nprc	1.393
nprb	1.438
ptc	20 1479
ptb	20.7988
wactc	2.849
wactb	13.765
ttc	1159.21
ttb	496.237
ptmix	20.6938
ttmix	803.232
mixpnd	0.674807
gravixp	13337.7
badchan	{26}
bkgnd	245
escdate	22.Nov.96
esctime	19:34:39
DADSdate	22.Nov.96
DADStime	19:34:39
btchdate	22.Nov.96
btchtime	19:34:39

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:15:53 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	49.9	51.46	52.78	53.86	54.81	55.59	56.25	56.82	57.32	57.78	58.22	58.67
100	52.74	54.49	55.77	56.64	57.2	57.54	57.74	57.89	58.06	58.4	58.92	59.71
130	53.12	54.58	55.58	56.2	56.58	56.74	56.84	56.93	57.11	57.44	58.02	58.88
160	53.74	54.83	55.75	56.55	57.27	57.94	58.58	59.18	59.77	60.33	60.88	61.43
200	54.94	55.75	56.39	56.97	57.6	58.3	58.95	59.4	59.67	59.95	60.47	61.29
250	54.39	55.57	56.47	57.21	57.9	58.6	59.31	60.01	60.71	61.41	62.17	62.73
320	54.37	55.56	56.4	57.13	57.94	58.71	59.18	59.67	60.17	60.67	60.85	62.17
400	52.87	54.42	55.63	56.92	57.82	58.8	59.87	60.47	61.21	61.8	62.36	62.76
500	53.05	54.7	55.74	56.49	57.24	58.16	59.03	59.57	60.06	60.7	61.41	61.86
630	51.77	53.67	55.19	56.42	57.37	58.04	58.49	58.86	59.34	59.85	60.42	61.09
800	51.32	53.52	55.14	56.34	57.13	57.87	58.71	59.18	59.73	60.36	60.68	60.89
1000	50.84	52.87	54.57	55.86	56.83	57.29	57.99	58.62	59.19	58.73	59.95	60.31
1300	49.95	52.55	54.14	55.21	56.08	56.81	57.68	58.22	58.8	58.21	59.79	60.01
1600	49.26	52.16	53.73	54.7	55.29	56.01	56.77	57.51	58.04	58.5	59.02	59.65
2000	47.57	50.81	52.65	53.73	54.66	55.62	56.22	56.74	57.35	57.98	58.48	58.95
2500	45.79	49.14	51.11	52.41	53.37	54.22	54.99	55.58	56.26	56.93	57.15	57.53
3200	43.14	46.99	49.24	50.58	51.51	52.33	53.27	53.87	54.42	55.14	55.2	55.39
4000	39.32	43.56	46.03	47.5	48.5	49.62	50.86	51.27	51.69	52.26	52.39	52.46
5000	34.55	38.03	41.14	42.24	43.15	44.66	46.42	47.23	47.53	47.9	48.13	48.07
6300	26.79	31.79	33.69	34.96	36.17	37.96	39.92	40.89	41.36	41.73	41.53	41.26
8000	-1.84	18.76	22.74	24.64	26.41	28.8	30.97	31.94	32.43	32.92	32.96	32.62
10000	0	0	0	0	0	0	2.35	10.17	11.44	12.35	12.36	8.92
OASPL	64.31	65.96	67.22	68.15	68.91	69.62	70.3	70.82	71.34	71.89	72.35	72.81
PNL	70.99	73.79	75.53	76.69	77.58	78.45	79.28	79.86	80.44	81.04	81.38	81.79

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	59.18	59.82	60.63	61.66	62.95	64.39	65.62	66.25	65.87	64.02	0	127.33
100	60.69	61.77	62.87	63.89	64.74	65.32	65.51	65.19	64.17	62.24	0	127.35
130	59.93	61.06	62.16	63.13	63.86	64.33	64.52	64.38	63.42	60.39	0	126.43
160	61.99	62.59	63.23	63.9	64.53	65	65.06	64.47	62.92	60.09	0	127.12
200	62.23	62.96	63.31	63.46	63.59	63.62	63.06	61.33	58.69	55.89	0	125.86
250	63.01	63.62	64.1	64.35	64.35	63.96	62.77	60.35	57.15	53.53	0	126.24
320	62.26	62.96	63.34	63.1	62.41	61.73	60.41	57.3	53.49	49.87	0	124.95
400	62.95	63.25	62.86	62.04	62.2	61.13	58.55	54.82	51.02	47.67	0	124.82
500	61.99	62.06	61.95	61.61	61.03	59.7	57.03	53.31	49.32	45.03	0	123.83
630	61.67	61.77	61.28	60.37	59.71	57.94	55.1	51.72	47.87	43.2	0	123.02
800	61.11	61.12	60.8	59.51	58.29	56.71	54.2	50.29	46.1	41.61	0	122.64
1000	60.52	60.72	60.35	58.7	57.49	55.54	52.85	49.23	44.89	39.99	0	121.99
1300	60.34	60.69	59.96	58.35	56.34	54.32	51.51	47.74	43.38	38.44	0	121.55
1600	60.2	60.46	59.34	56.76	54.8	52.81	49.95	46.14	41.38	35.71	0	120.84
2000	59.49	60.16	59	55.4	53.26	51.29	48.32	44.18	38.94	32.67	0	120.12
2500	58.35	59.07	57.55	53.81	51.29	48.73	45.54	41.15	35.51	28.8	0	118.78
3200	55.74	56.28	54.81	50.97	48.29	45.41	41.79	38.76	30.26	22.81	0	116.49
4000	52.45	52.08	50.3	48.86	43.76	40.1	36.29	30.87	22.92	0	0	113.2
5000	47.75	46.63	44.4	40.76	37.34	33.15	28.44	21.18	0	0	0	108.43
6300	40.66	38.99	36	32.25	28.2	22.36	12.07	0	0	0	0	101.57
8000	30.79	27.9	23.9	17.69	0	0	0	0	0	0	0	92.17
10000	0	0	0	0	0	0	0	0	0	0	0	70.21
OASPL	73.36	73.85	73.89	73.64	73.66	73.56	73.14	72.31	70.97	68.56	0	136.78
PNL	82.31	82.75	81.65	79.64	78.45	77.23	75.45	72.91	69.91	66.01	0	80.81

NASA Lewis Allison AST Jet Noise Test 1996

rdg	252
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	912.92
m01	0.01903
pamb	14.4627
tamb	495.273
rhumid	64.85
winds1	0
nprc	1.543
nprb	1.618
ptc	22 3159
ptb	23.4006
wactc	2.826
wactb	16.434
ttc	1296.47
ttb	498.259
ptmix	23.2415
ttmix	615.38
muxpnd	0.750615
grsvlxp	17582.8
badchan	{26}
bkgnd	245
escdate	22.Nov.96
esctime	19:43:12
DADSdate	22.Nov.96
DADStime	19:43:12
bichdate	22.Nov.96
bichtime	19:43:12

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:17:59 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	76.52	77.65	78.54	79.25	79.82	80.29	80.71	81.13	81.6	82.16	82.85	83.73	84.81	86.13	87.7	89.56	91.74	94.11	96.37	98.19	99.22	99.14	0	133.02
100	78.89	80.01	80.86	81.51	81.99	82.35	82.66	82.96	83.3	83.74	84.34	85.13	86.15	87.43	89	90.9	93.14	95.59	97.87	99.56	100.24	99.51	0	134.24
130	80.14	80.59	80.87	81.04	81.15	81.23	81.34	81.52	81.82	82.28	82.94	83.85	85.02	86.44	88.14	90.12	92.38	94.79	96.93	98.37	98.69	97.45	0	133.04
160	80.94	81.79	82.42	82.88	83.22	83.48	83.73	84.01	84.38	84.88	85.56	86.47	87.6	88.94	90.48	92.2	94.09	96.05	97.68	98.61	98.82	98.4	0	134.11
200	81.17	82	82.62	83.07	83.42	83.71	84	84.34	84.79	85.4	86.21	87.26	88.48	89.77	91.07	92.29	93.33	94.11	94.55	94.56	94.09	93.08	0	132.19
250	81.64	82.24	82.71	83.11	83.49	83.86	84.31	84.81	85.41	86.14	87.02	88.08	89.22	90.3	91.4	92.81	93.81	94.72	94.88	94.52	93.69	92.32	0	132.51
320	81.55	82.28	82.7	82.95	83.16	83.44	83.75	84.06	84.52	85.29	86.2	87.17	88.28	89.58	90.83	91.72	92.61	93.09	92.89	91.69	89.85	88.26	0	131.1
400	81.18	82.13	82.83	83.24	83.66	84.31	85.16	86.11	86.45	86.36	87.27	88.07	89.5	90.2	90.81	91.32	92.16	92.13	90.93	89.27	87.34	85.58	0	130.96
500	80.77	81.82	82.59	83.18	83.82	84.03	84.44	84.88	85.41	86.06	86.93	87.88	88.76	89.64	90.47	91.03	91.25	91	90.09	88.37	86.16	83.95	0	130.33
630	80.87	82.04	82.91	83.54	84.02	84.42	84.79	85.07	85.49	86.3	87.04	87.88	88.69	89.5	90	90.3	90.17	89.86	88.99	87.15	85.74	83.93	0	129.98
800	81.01	82.36	83.2	83.72	84.08	84.4	84.9	85.49	86.08	86.66	87.31	88.22	89.42	89.85	89.71	90.01	89.83	89.17	88.32	86.47	84.61	82.98	0	129.99
1000	81.1	82.79	83.75	84.23	84.5	84.64	84.81	85.29	85.91	86.49	87.52	88.59	89.56	90.25	89.85	89.26	89.04	88.51	87.77	86.2	84.23	82.54	0	129.84
1300	81.11	83.22	84.34	84.74	84.63	84.81	85.46	86.06	86.84	87.5	88.06	88.62	89.31	90.25	89.96	89.69	88.82	87.98	87.39	86.3	84.76	83.13	0	130.16
1600	80.95	82.89	83.93	84.44	84.82	85.26	85.48	85.75	86.18	86.81	87.68	88.95	90.18	90.98	90.31	88.72	88.24	88.04	87.3	86.01	84.38	82.83	0	130.15
2000	80.34	82.63	83.84	84.39	84.83	85.35	85.72	86.06	86.46	87.11	88.42	89.92	90.6	91.78	90.84	89.45	88.04	87.58	86.95	85.73	84.04	82.5	0	130.45
2500	79.74	82.04	83.31	84.1	84.71	85.23	85.83	85.9	86.23	86.86	87.94	89.45	90.93	92.64	91.25	89.59	87.72	87.06	86.36	85.45	83.82	82.05	0	130.46
3200	78.79	81.32	82.84	83.76	84.57	84.92	85.26	85.55	85.94	86.53	87.48	89.03	90.39	91.98	90.99	88.29	86.86	85.93	85.25	84.34	82.86	81.32	0	129.96
4000	77.86	80.37	81.78	82.7	83.51	84.11	84.56	84.84	85.26	85.82	86.74	87.84	88.58	89.83	89.4	87.37	85.92	84.65	83.66	82.63	81.11	79.69	0	128.67
5000	76.63	79.4	80.61	81.17	81.79	82.74	83.6	84.11	84.23	84.72	85.75	86.47	86.67	87.9	87.29	85.32	83.93	82.75	81.78	80.2	78.03	76.83	0	127.1
6300	74.85	77.7	79.16	80	80.61	81.47	82.47	83.16	83.61	84.12	84.49	84.99	85.31	85.67	84.86	83.33	81.96	80.69	80.05	77.36	74.26	73.67	0	125.59
8000	73.4	76.54	78.16	78.97	79.53	80.34	81.39	82.06	82.55	83.17	83.89	84.31	83.85	83.75	83.01	81.72	80.8	79.53	78.85	75.71	71.88	71	0	124.38
10000	70.41	73.2	74.97	76.54	77.71	78.32	78.45	78.97	79.61	80.14	80.64	80.07	79.61	79.99	79.87	78.62	77.48	76.3	75.01	71.94	67.96	66.3	0	121.15
OASPL	93.22	94.71	95.65	96.21	96.64	97.08	97.51	97.94	98.4	98.97	99.82	100.83	101.82	102.9	103.04	103.11	103.83	104.73	105.61	106.24	106.36	105.6	0	144.25

NASA Lewis Allison AST Jet Noise Test 1996

rdg 252
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 912.92
m01 0.01903
pamb 14.4627
tamb 495.273
rhumid 64.85
winds1 0
nprc 1.543
nprb 1.818
ptc 22.3159
ptb 23.4006
wacic 2.826
wacib 16.434
ttc 1298.47
ttb 498.259
ptmix 23.2415
ttmix 815.38
mixpnd 0.750815
grevixp 17582.6
badchan (26)
bkgnd 245
escdate 22.Nov.96
esctime 19:43:12
DADSdate 22 Nov.96
DADStime 19:43:12
bichdate 22.Nov.96
bichtime 19:43:12
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:18:05 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	54.74	56.35	57.64	58.66	59.47	60.11	60.64	61.09	61.53	61.96	62.51	63.14	63.91	64.83	65.92	67.19	68.66	70.2	71.47	72.06	71.64	69.69	0	132.93
100	57.07	58.67	58.93	60.60	61.61	62.15	62.55	62.89	63.2	63.54	63.96	64.51	65.21	66.1	67.16	68.49	70.03	71.64	72.92	73.39	72.58	69.97	0	134.1
130	58.27	59.2	59.89	60.36	60.73	60.99	61.2	61.41	61.67	62.03	62.52	63.19	64.04	65.06	66.27	67.65	69.2	70.76	71.69	72.11	70.93	67.77	0	132.81
160	58.99	60.33	61.36	62.15	62.73	63.17	63.51	63.83	64.16	64.56	65.06	65.74	66.54	67.48	68.53	69.64	70.82	71.92	72.53	72.22	70.91	68.53	0	133.78
200	59.09	60.42	61.45	62.24	62.83	63.29	63.69	64.07	64.46	64.99	65.63	66.43	67.32	68.2	69	69.6	69.91	69.82	69.21	67.96	65.92	62.91	0	131.75
250	59.38	60.49	61.38	62.11	62.74	63.31	63.84	64.38	64.95	65.56	66.27	67.06	67.89	68.55	69.13	69.72	70.18	70.2	69.28	67.61	65.16	61.69	0	131.85
320	59.05	60.31	61.16	61.75	62.22	62.68	63.1	63.45	63.88	64.53	65.27	65.98	66.72	67.61	68.33	68.58	68.72	68.27	66.94	64.37	60.82	57.04	0	130.23
400	58.32	59.82	60.97	61.73	62.41	63.25	64.21	65.2	65.51	65.31	66.04	66.56	67.63	67.89	67.98	67.8	67.84	66.66	64.48	61.38	57.63	53.45	0	129.77
500	57.48	59.1	60.34	61.28	62.02	62.62	63.14	63.62	64.11	64.66	65.32	65.99	66.5	66.93	67.19	67.05	66.43	65.17	63.01	59.74	55.54	50.72	0	128.7
630	57.05	58.83	60.19	61.22	61.99	62.6	63.1	63.42	63.6	64.49	65.02	65.57	65.99	66.31	66.2	65.76	64.73	63.34	61.13	57.64	54.13	49.44	0	127.87
800	56.65	58.64	59.99	60.91	61.57	62.13	62.76	63.39	63.94	64.41	64.83	65.43	66.23	66.15	65.36	64.88	63.77	61.96	59.65	56.02	51.83	47.07	0	127.39
1000	56.18	58.55	60.04	60.96	61.54	61.91	62.22	62.74	63.31	63.78	64.57	65.31	65.86	66.02	64.94	63.53	62.32	60.56	58.3	54.8	50.33	45.23	0	126.82
1300	55.59	58.41	60.1	60.94	61.17	61.57	62.38	63.01	63.74	64.25	64.6	64.81	65.06	65.43	64.43	63.29	61.37	59.2	57.01	53.86	49.63	44.3	0	126.48
1600	54.73	57.42	59.06	60.04	60.78	61.47	61.83	62.14	62.53	63.01	63.63	64.54	65.3	66.5	64.09	61.59	59.98	58.37	55.91	52.41	47.85	42.24	0	125.83
2000	53.28	56.36	58.2	58.23	60.05	60.84	61.38	61.76	62.09	62.59	63.64	64.77	64.93	65.48	63.75	60.39	58.75	58.77	54.26	50.64	45.76	39.77	0	125.36
2500	51.44	54.81	56.58	57.9	58.92	59.73	60.3	60.63	60.69	61.36	62.15	63.28	64.19	65.18	62.95	59.2	57.04	54.75	51.93	48.32	43.11	38.29	0	124.26
3200	48.73	52.21	54.51	56.06	57.29	57.96	58.48	58.82	59.14	59.55	60.21	61.3	62.07	62.69	60.93	56.99	54.08	51.26	48.24	44.27	38.65	31.16	0	122.18
4000	45.06	48.67	50.99	52.63	53.96	54.89	55.52	55.89	56.24	56.6	57.17	57.76	57.81	58.19	56.62	53.15	49.96	46.5	42.72	37.96	31.53	22.78	0	118.48
5000	39.62	43.75	46.06	47.48	48.74	50.13	51.23	51.78	51.76	51.99	52.67	52.81	52.07	52.33	50.36	46.69	43.17	39.25	34.8	28.75	18.96	0	0	113.31
6300	31.29	35.85	38.62	40.53	41.98	43.41	44.86	45.45	45.83	45.95	45.78	45.48	44.85	43.84	41.19	37.63	33.44	26.68	22.58	1.03	0	0	0	106.19
8000	16.42	24.71	28.56	30.85	32.41	33.95	35.48	36.33	36.64	36.79	36.73	36.29	34.47	32.61	29.34	24.71	18.65	0	0	0	0	0	0	96.51
10000	0	0	0	-2.57	10.71	16.52	18.32	19.75	20.65	20.45	19.79	16.64	10.5	0	0	0	0	0	0	0	0	0	0	78.46
OASPL	69.3	71	72.25	73.11	73.77	74.33	74.85	75.32	75.75	76.19	76.81	77.51	78.2	78.79	78.87	79	79.4	79.77	79.9	79.54	78.29	75.67	0	142.54
PNL	78.49	79.16	80.88	82.04	82.93	83.67	84.28	84.68	85.04	85.48	86.17	87.02	87.69	88.36	87.17	85.19	84.27	83.56	82.33	80.65	78.06	74.37	0	98.33

NASA Lewis Allison AST Jet Noise Test 1996

rdg	253
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	970.82
m01	0.01872
pamb	14.4629
tamb	494.48
rhumid	71.05
winds1	0
nprc	1.741
nprb	1.816
ptc	25.1799
ptb	26.2936
wactc	3.163
wactb	18.44
ttc	1409.41
ttb	506.436
ptmix	26.1306
ttmix	638.644
mixpnd	0.783385
gravixp	20968.3
badchan	{26}
bkgnd	245
escdate	22.Nov.96
esctime	20:10:24
DADSdate	22.Nov.96
DADStime	20:10:24
btchdate	22.Nov.96
btchtime	20:10:24

**Scenario: 150 foot arc: 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:20:13 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	80.8	81.98	82.75	83.24	83.53	83.88	83.79	83.93	84.2	84.87	85.42	86.53	87.97	89.74	91.82	94.18	96.81	99.54	101.95	103.64	104.16	103.1	0	137.88
100	83.72	84.67	85.34	85.8	86.11	86.35	86.56	86.78	87.03	87.34	87.72	88.29	89.28	90.65	93.07	95.75	98.66	101.49	103.84	105.26	105.31	103.58	0	139.41
130	85.92	86.84	87.16	87.04	86.61	86.04	85.45	85.01	84.84	85.1	85.92	87.38	89.38	91.73	94.31	96.95	99.47	101.71	103.48	104.49	104.57	103.51	0	139.21
160	88	88.66	88.53	88.02	87.53	87.35	87.48	87.89	88.5	89.27	90.12	91.03	92.05	93.27	94.76	96.61	98.89	101.48	103.9	105.66	106.26	105.23	0	140.18
200	87.48	88.15	87.99	87.57	87.47	88.01	88.85	89.47	89.64	89.72	90.11	91.04	92.28	93.39	94.58	96.37	98.48	100.46	101.75	101.9	101.28	100.6	0	137.95
250	85.89	86.63	87.05	87.27	87.39	87.52	87.68	87.99	88.46	89.17	90.21	91.58	93.09	94.71	96.36	97.84	99.3	100.3	100.8	100.64	99.71	97.87	0	137.63
320	85.73	86.41	86.91	87.25	87.49	87.67	87.86	88.11	88.5	89.06	89.87	90.98	92.35	93.94	95.51	96.82	97.93	98.54	98.6	98.11	97.01	95.26	0	136.19
400	85.12	85.8	86.21	86.52	86.9	87.48	88.05	88.49	89.01	90.03	91.26	92.21	93.01	94.05	94.81	96.13	96.98	96.95	95.99	93.96	92.38	90.69	0	135.13
500	85.14	85.82	86.29	86.67	87.03	87.43	87.86	88.32	88.79	89.42	90.38	91.52	92.81	93.85	94.81	95.7	96.3	95.34	94.69	93.31	91.27	89.02	0	134.51
630	85.41	86.19	86.63	86.93	87.25	87.63	88.04	88.64	89.35	89.89	90.08	91.59	92.92	93.95	94.73	95.13	95.26	94.47	92.76	90.86	89.07	87.21	0	134.12
800	85.62	86.56	87.17	87.38	87.57	87.88	88.28	88.93	89.64	90.27	90.99	91.9	93.01	94.04	94.52	94.38	94.23	93.29	91.98	90.48	88.88	87.2	0	133.97
1000	85.66	86.88	87.54	87.86	88.05	88.27	88.65	89.23	89.97	90.79	91.52	92.26	93.37	94.23	94.2	93.67	93.25	92.49	91.32	90.25	88.65	86.64	0	133.94
1300	86.18	87.44	88.1	88.43	88.47	88.8	88.91	89.48	90.25	91.01	91.65	92.74	94.05	94.79	94.37	93.5	93.11	92.47	91.48	90.6	89.5	87.39	0	134.23
1600	86.15	88.08	89.02	89.26	89.17	89.22	89.49	89.92	90.61	91.37	92.24	93.66	95.55	96.52	94.81	93.29	92.86	92.44	91.59	90.58	89.19	87.05	0	134.87
2000	86.27	88.28	89.11	89.48	89.43	89.57	89.92	90.28	90.83	91.77	92.75	94.57	97.08	97.98	95.87	93.52	92.95	92.24	91.49	90.75	89.55	87.15	0	135.59
2500	86.28	88.33	89.36	89.84	89.92	89.98	90.25	90.75	91.34	92.15	93.11	95.33	98.15	98.89	96.58	94.05	92.87	92.11	91.38	90.74	89.4	86.79	0	136.19
3200	85.87	88.21	89.29	89.76	90.02	90.24	90.52	91.05	91.8	92.96	93.95	96	98.88	98.68	97.66	94.99	93.26	92.15	91.41	90.79	89.46	86.82	0	136.78
4000	85.52	88.04	89.12	89.47	89.5	89.8	90.3	90.77	91.66	92.95	94.16	96.14	98.22	98.63	97.08	94.39	92.86	91.51	90.46	90.12	88.58	85.93	0	136.36
5000	85.22	87.78	88.44	88.4	88.48	89.17	89.75	90.47	91.12	92.17	93.42	95.44	97.34	97.99	96.3	93.85	91.65	90.16	89.19	88.47	86.9	84.3	0	135.55
6300	84.32	87.05	87.77	88.16	87.79	88.29	89.41	90.18	90.77	91.75	92.49	94.37	96.36	96.79	94.98	92.54	90.41	88.69	87.55	86.24	84.46	82.22	0	134.58
8000	83.6	86.45	87.11	87.51	87.58	88.07	88.14	88.74	90.21	91.33	92.24	93.88	95.59	95.95	94.33	91.78	89.48	87.24	85.78	84.34	82.55	80.47	0	133.83
10000	81.41	83.18	83.6	85.08	85.84	86.34	86.7	87.1	87.7	88.47	89.3	90.55	92.31	92.99	91.88	89.48	86.57	83.89	81.91	80.61	78.83	75.98	0	131.1
OASPL	98.93	100.39	101.01	101.27	101.34	101.59	102.01	102.49	103.09	103.91	104.8	106.34	108.2	109.11	108.5	108.39	108.23	110.35	111.54	112.34	112.31	111.05	0	149.83

NASA Lewis Allison AST Jet Noise Test 1998

rdg 253
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 970.62
m01 0.01872
pamb 14.4629
tamb 494.48
rhumid 71.05
winds1 0
nprc 1.741
nprb 1.818
ptc 25.1799
ptb 26.2936
wactc 3.163
wactb 18.44
ttc 1409.41
ttb 508.436
ptmix 26.1305
ttmix 638.644
mixpnd 0.783385
grwixp 20988.3
badchan (26)
bkgnd 245
escdate 22.Nov 96
esctime 20:10:24
DADSdate 22.Nov.96
DADStime 20:10:24
blchdate 22.Nov.96
blchtime 20:10:24
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:20:21 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	59.02	60.67	61.85	62.66	63.18	63.5	63.71	63.89	64.12	64.49	65.08	65.94
100	61.9	63.33	64.4	65.18	65.74	66.15	66.46	66.71	66.93	67.13	67.35	67.66
130	64.04	65.46	66.18	66.38	66.19	65.79	65.3	64.89	64.69	64.85	65.5	66.71
160	66.04	67.2	67.47	67.28	67.04	67.04	67.28	67.71	68.29	68.95	69.63	70.29
200	65.4	66.58	66.83	66.74	66.66	67.6	68.54	69.19	69.33	69.3	69.52	70.2
250	63.64	64.89	65.72	66.27	66.65	66.95	67.23	67.57	68	68.61	69.47	70.58
320	63.23	64.45	65.37	66.08	66.55	66.92	67.21	67.5	67.85	68.3	68.93	69.78
400	62.27	63.49	64.34	65.01	65.66	66.4	67.11	67.58	68.07	68.97	70.02	70.71
500	61.85	63.11	64.05	64.8	65.44	66.03	66.57	67.06	67.5	68.01	68.77	69.63
630	61.61	62.99	63.92	64.6	65.22	65.81	66.35	66.99	67.65	68.06	68.07	69.28
800	61.26	62.84	63.95	64.58	65.07	65.6	66.12	66.83	67.49	68.01	68.52	69.12
1000	60.74	62.63	63.84	64.59	65.1	65.55	66.07	66.68	67.38	68.06	68.56	68.96
1300	60.65	62.62	63.85	64.63	65	65.36	65.81	66.41	67.15	67.77	68.18	68.93
1600	59.92	62.6	64.14	64.64	65.11	65.42	65.84	66.32	66.95	67.56	68.17	69.25
2000	59.18	61.98	63.45	64.33	64.66	65.06	65.56	65.97	66.47	67.26	67.98	69.41
2500	57.99	60.89	62.6	63.62	64.11	64.47	64.9	65.45	66	66.64	67.31	69.12
3200	55.78	59.07	60.92	62	62.72	63.25	63.73	64.31	65.09	65.98	66.65	68.22
4000	52.66	56.28	58.27	59.35	59.94	60.6	61.29	61.82	62.66	63.72	64.57	66.01
5000	48.14	52.06	53.83	54.63	55.31	56.46	57.31	58.07	58.65	59.48	60.32	61.71
6300	40.69	45.06	47.09	48.54	49.03	50.09	51.49	52.39	52.82	53.56	53.74	54.86
8000	29.62	35.08	37.88	38.35	40.33	41.53	43.01	43.79	44.15	44.88	45.12	45.76
10000	0	14.03	19.53	23.44	25.79	27.49	28.82	29.45	29.76	29.97	29.9	29.9
OASPL	74.5	76.06	76.98	77.51	77.87	78.26	78.7	79.15	79.62	80.16	80.75	81.69
PNL	82.56	85.02	86.46	87.31	87.79	88.25	88.76	89.29	89.88	90.59	91.24	92.51

distance: (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	67.07	68.44	70.03	71.81	73.74	75.63	77.05	77.53	76.57	73.65	0	137.79
100	68.34	69.52	71.25	73.34	75.55	77.54	78.88	79.09	77.65	74.04	0	139.27
130	68.38	70.35	72.44	74.48	76.3	77.69	78.43	78.23	76.8	73.83	0	138.99
160	70.99	71.81	72.8	74.08	75.62	77.35	78.74	79.26	78.33	75.35	0	139.82
200	71.12	71.82	72.5	73.89	75.07	76.19	76.43	75.31	73.12	70.66	0	137.48
250	71.76	72.96	74.1	75.08	75.68	75.79	75.21	73.74	71.18	67.24	0	136.95
320	70.81	71.97	73.01	73.69	74.03	73.71	72.68	70.8	68	64.07	0	135.26
400	71.15	71.74	71.94	72.6	72.63	71.67	69.53	66.04	62.67	58.62	0	133.89
500	70.36	71.14	71.33	71.73	71.47	69.49	67.58	64.67	60.67	55.81	0	132.84
630	70.22	70.78	70.93	70.58	69.82	67.95	64.89	61.31	57.4	52.68	0	131.99
800	69.81	70.33	70.18	69.25	68.16	66.06	63.32	60.04	56.14	51.31	0	131.34
1000	69.64	69.98	69.29	67.94	66.52	64.54	61.66	58.89	54.78	49.35	0	130.81
1300	69.78	69.95	68.84	67.11	65.65	63.71	61.1	58.16	54.37	48.53	0	130.51
1600	70.66	71.02	68.38	66.15	64.6	62.8	60.21	56.98	52.66	46.48	0	130.55
2000	71.39	71.66	68.56	65.42	63.66	61.46	58.82	55.66	51.25	44.38	0	130.48
2500	71.39	71.42	68.24	64.65	62.15	59.76	56.92	53.59	48.64	40.99	0	130
3200	70.27	70.54	67.54	63.63	60.41	57.45	54.34	50.6	45.1	36.57	0	128.94
4000	67.4	67.11	64.22	60.16	56.92	53.38	49.43	45.37	38.82	29.02	0	126.1
5000	62.77	62.31	59.25	54.91	50.78	46.57	42.12	36.85	29.08	13.84	0	121.58
6300	55.81	54.86	51.28	46.65	41.78	36.53	30.91	23.13	-2.19	0	0	114.78
8000	46.04	44.64	40.64	35.09	29.07	21.27	0	0	0	0	0	105.49
10000	29.6	27.49	22.73	11.61	0	0	0	0	0	0	0	89.96
OASPL	82.83	83.48	83.46	83.94	84.75	85.48	85.95	85.68	84.22	81.07	0	147.79
PNL	94.1	94.41	92.63	90.64	89.92	89.29	88.36	87.23	84.94	80.95	0	92.07

NASA Lewis Allison AST Jet Noise Test 1996

rdg 258
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 567.23
m01 0.20211
pamb 14.4192
tamb 492.74
rhumid 75.5
winds1 0
nprc 1.172
nprb 1.211
ptc 16.8993
ptb 17.4617
wactc 1.621
wactb 9.362
ttc 1121.46
ttb 508.138
ptmix 17.3787
ttmix 598.659
mixpnd 0.472852
grsvixp 6229.89
badchan (26)
bkgnd 248
escdate 22.Nov.96
esctime 20:43:21
DADSdate 97.08.25
DADStime 20:43:21
btchdate 22.Nov.96
btchtime 20:43:21
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 10:09:45 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	54.08	58.34	58.97	59.65	59.17	61.18	61.08	61.22	61.95	61.95	61.33	62.62	65.37	66.19	66.15	65.55	65.32	66.19	66.34	66.35	66.8	67.44	68.19	108.51
100	58.56	58.47	58.89	62.21	61.88	61.1	61.9	62.17	62.45	63.12	63.95	63.26	64.01	65.15	66.28	66.32	65.63	65.34	65.2	65.81	66.78	66.8	66.47	106.69
130	57.81	58.37	59.01	60.28	60.17	60.98	62.63	62.15	61.98	62.6	62.73	63.3	64.58	64.67	65.13	65.25	64.99	65.61	66.29	66.99	67.64	67.93	67.99	106.56
160	63.8	57.96	60.44	60.9	61.67	62.87	63.8	64.26	64.76	64.49	64.66	65.32	64.92	64.97	65.41	66.01	66.92	67.63	67.16	66.88	67.41	67.6	67.34	107.7
200	59.99	61.18	62.47	63.7	64.7	65.46	66.03	65.81	66.74	67.34	67.62	68.53	69.32	69.22	70.06	70.45	70.21	70.35	69.79	69.18	68.66	67.43	66.06	110.6
250	63.18	66.96	67.52	69.28	69.88	70.39	70.2	70.52	71.17	71.49	71.66	72.16	72.54	73.55	74.13	74.25	74.15	73.82	73.41	72.49	71.32	70.59	68.66	114.81
320	62.9	66.54	66.71	68.43	68.75	68.74	68.69	69.13	70.12	70.15	70.53	71.39	72.28	73.18	73.84	73.99	73.86	73.56	72.49	70.84	69.07	66.99	59.57	113.8
400	60.84	65.58	65.82	67.28	66.71	67.21	68.38	69.25	69.27	69.32	70.16	70.77	70.59	71.49	71.83	71.53	70.91	69.96	68.71	67.49	66.6	64.19	53.69	112.11
500	61.79	65.58	67.65	69.33	68.92	69.22	69.86	70.28	70.79	70.96	72.13	72.76	73.15	74.01	74.96	75.17	74.61	73.5	71.96	70.48	69.2	67.94	63.98	114.57
630	61.07	66.85	67.71	68.84	68.75	68.82	69.77	70.44	71.16	70.91	71.84	72.98	73.54	74.16	74.58	74.13	72.76	70.76	68.76	67.37	66.54	65.96	64.96	114.06
800	62.14	67.28	68.49	68.53	67.57	68.61	69.28	70.23	70.7	71.06	72.25	72.46	73.46	73.77	73.87	73.52	71.93	69.63	67.79	66.29	65.28	65.56	65.21	113.7
1000	61.43	66.87	67.57	67.35	66.99	67.88	68.59	69.42	70.23	70.28	70.82	71.75	72.57	72.81	72.98	72.8	71.51	69.07	66.47	65	64.61	64.29	63.98	112.87
1300	60.93	66.85	67.3	66.63	67.15	67.5	68.38	69.21	69.81	69.52	70.12	70.57	71.55	71.66	71.9	71.64	70.13	67.95	66.22	64.8	63.66	63.12	63.08	112.09
1600	59.87	66.27	66.24	65.6	65.88	66.56	67.48	68.24	68.3	68.28	69.03	69.18	70.23	70.82	71.51	71.6	70.19	67.72	65.77	64.19	62.85	62.33	62.24	111.24
2000	60.02	65.83	65.43	65.98	65.99	66.43	67.57	68.19	68.02	67.73	68.45	68.66	69.5	69.62	69.8	69.49	67.79	65.48	63.88	62.37	60.86	60.44	60.51	110.35
2500	60.07	65.76	65.43	66.63	66.23	66.77	68.51	68.66	68.04	68	68.89	68.81	69.15	69.01	68.79	68.37	66.8	64.22	62.36	60.77	59.37	59.21	59.54	110.21
3200	59.83	65.87	65.69	66.54	66.41	67	69.01	68.97	68.61	68.5	69.61	69.48	69.32	69.5	69.26	68.61	66.69	64.19	62.51	60.92	59.21	58.68	58.85	110.6
4000	58.89	64.77	65.42	66.4	65.5	66.55	68.81	68.52	68.28	68.13	69.04	68.55	69.03	68.61	68.88	68.77	66.9	64.23	62.43	60.32	58.19	58.22	58.8	110.18
5000	57.99	64.16	64.53	65.78	64.24	66.15	68.06	68.14	67.51	67.48	68.84	68.6	68.51	68.23	68.49	68.1	66.28	63.83	61.89	59.53	57.39	57.72	58.27	109.65
6300	58.24	63.55	64.36	65.54	63.99	66.12	68.14	68.24	67.81	67.79	68.54	68.59	68.64	68.39	68.23	67.66	65.86	63.41	61.59	59.33	57.14	57.43	57.69	109.59
8000	58.54	64.04	64.99	65.9	64.44	66.41	68.61	68.42	68.11	68.13	68.94	69.55	69.05	68.69	68.48	67.79	66.21	63.73	61.89	59.52	57.1	57.43	57.52	109.99
10000	58.18	63.49	63.27	64.75	64.08	66.09	67.11	67.05	66.6	66.52	67.75	68.81	67.03	67.6	67.42	67.2	65.59	61.98	60.33	58.18	55.28	55.29	55.69	108.64
OASPL	73.92	78.37	78.95	79.85	79.61	80.33	81.34	81.73	81.97	82.01	82.78	83.2	83.74	84.16	84.53	84.4	83.48	82.26	81.09	80	79.2	78.62	77.49	124.85

NASA Lewis Allison AST Jet Noise Test 1996

rdg	258
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	567.23
m01	0.20211
pamb	14.4192
tamb	492.74
rhumid	75.5
winds1	0
nprc	1.172
nprb	1.211
ptc	16.8993
ptb	17.4617
wactc	1.821
wactb	9.362
ttc	1121.46
ttb	508.138
ptmix	17.3787
ttmix	598.659
mixpnd	0.472652
grsvixp	6229.89
badchan	(28)
bkgnd	246
escdate	22.Nov.96
esctime	20:43:21
DADSdate	97.08.25
DADStime	20:43:21
bichdate	22.Nov.96
bichtime	20:43:21

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 27 10:09:54 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	33.73	36.9	37.76	38.25	38.58	38.81	42.17	41.18	40.06	42.52	41.14	41.1	42.88	42.51	42.73	44.55	42.75	41.12	38.96	37.65	36.87	34.99	32.55	105.52
100	34.68	34.82	37.2	39.98	40.48	39.3	42.72	42.1	41.49	41.21	41.63	42.49	43.35	43.62	43.39	41.87	42.52	42.41	41.71	40.39	38.93	37.22	34.88	108.21
130	37.11	37.86	38.81	40.72	41.51	42.14	43.55	42.04	41.6	43.31	43.31	43.28	43.27	44.44	44.4	43.54	42.54	42.54	42.98	41.6	40.37	38.39	35.44	107.18
160	40.88	38.22	40.32	38.73	42.89	43.45	45.8	44.09	43.99	44.29	43.75	43.58	44.04	43.08	43.01	42.64	43.75	42.68	40.92	39.34	39.77	36.99	32.8	107.33
200	40.56	41.32	44.02	46.14	48.16	48.62	49.88	45.53	46.2	47.56	47.38	49.03	48.84	48.46	49.29	48.62	47.48	47.48	45.79	43.9	41.51	39.94	35.78	111.69
250	41.69	46.77	47.21	49.31	49.59	49.45	48.78	50.08	51.76	51.77	52.38	52.45	53.08	53.58	53.98	53.28	52.43	50.88	48.8	46.27	42.66	38.91	30.93	115.29
320	38.39	42.55	43.2	45.16	45.52	48	46.95	48.53	48.81	48.55	48.13	48.98	48.98	49.11	49.07	48.03	47.01	45.77	43.54	40.14	37.48	31.91	0	111.08
400	38.02	43.07	45.46	47.42	47.33	47.95	48.4	48.33	48.57	48.53	49.45	49.74	49.1	50.25	50.66	50.55	49.14	47.4	44.86	42.07	38.64	35.31	28.08	112.32
500	37.61	42.52	44.25	48.18	46.69	46.98	48	48.99	49.6	49.79	50.82	51.08	51.28	51.16	50.98	50.07	48.38	45.31	42.31	39.2	36.07	32.61	26.61	112.47
630	37.54	43.68	45.38	46.08	45.28	48.12	47.28	48.79	49.48	49.19	50.12	50.82	51.1	51.47	51.41	50.04	47.18	44.04	40.67	37.23	34.18	31.6	27.4	112.18
800	37.2	43.16	44.37	44.4	44	45.36	46.01	48.14	48.48	48.41	49.24	49.07	49.35	49.16	48.53	47.68	45.52	42.33	38.46	35.13	32.28	28.74	23.95	110.56
1000	35.65	42	43.28	43.13	43.83	44.31	45.24	46.86	47.6	47.65	47.81	48.48	49.08	48.48	47.79	46.3	43.72	40.01	36.38	33.14	29.77	26.08	21.02	109.6
1300	33.95	40.9	41.41	41.15	41.84	42.72	43.86	46.17	46.63	46.14	46.36	46.17	46.37	46.18	46.11	45.43	43.07	39.52	36.1	32.46	28.32	23.85	17.73	108.02
1600	32.86	39.82	40.15	40.55	40.98	41.86	43.18	44.64	44.62	44.29	44.67	44.65	45.16	44.93	44.53	43.44	40.6	36.43	33.03	29.36	24.98	20.38	5.38	106.45
2000	31.65	38.2	38.5	40.31	40.41	41.16	42.95	43.87	43.88	43.25	43.83	43.41	43.6	43.1	42.07	40.55	37.82	34	30.31	26.21	21.49	13.6	0	105.07
2500	29.81	36.6	37.46	38.68	39.13	40.05	42.24	43.35	42.8	42.51	43.03	42.91	42.62	41.79	40.8	39.09	35.98	31.74	27.95	23.62	15.71	0	0	104.05
3200	26.44	33.63	34.29	36.31	36.04	37.29	39.77	42.27	41.78	41.53	42.24	41.51	40.92	40.28	39.21	37.54	34.34	29.68	25.52	19.78	0	0	0	102.45
4000	19.99	28.37	30.37	32.07	31.29	33.5	35.64	39.58	39.21	38.82	39.52	38.58	38.21	36.66	35.88	34.52	30.86	26.08	20.15	0	0	0	0	99.32
5000	0	19.97	22.55	25.36	24.73	27.65	30.03	35.75	35	34.83	35.68	34.84	33.77	32.58	31.32	29.04	25	16.19	0	0	0	0	0	94.87
6300	0	0	0	3.99	-2.36	13.09	20.72	30.4	29.73	29.7	29.99	29.53	28.7	26.85	24.63	20.63	0.74	0	0	0	0	0	0	88.93
8000	0	0	0	0	0	0	0	20.97	20.25	19.34	19.76	18.76	14.83	7.18	0	0	0	0	0	0	0	0	0	77.95
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	49.53	53.69	54.86	56.36	56.82	57.29	58.28	58.63	59.32	59.39	59.86	60.18	60.4	60.51	60.52	59.71	58.25	56.47	54.29	51.92	49.55	46.79	42.4	122.33
PNL	55.75	61.86	62.81	64.3	64.56	65.37	67.09	67.48	67.36	67.23	67.79	67.69	67.6	67.13	66.74	65.66	63.57	60.95	57.84	54.22	50.03	45.31	36.36	67.28

NASA Lewis Allison AST Jet Noise Test 1996

rdg	257
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	611.86
m01	0.20219
pamb	14.4214
tamb	493.183
rhumid	74.9
winds1	0
nprc	1.392
nprb	1.439
ptc	20.0746
ptb	20.7524
wactc	2.547
wacfb	13.488
ttc	1186.72
ttb	507.796
ptmix	20.6447
ttmix	615.637
mixpnd	0.667382
grsvixp	13018.2
badchan	(26)
bkgnd	246
escdate	22.Nov.96
esctime	20:37:59
DADSdate	97.08.20
DADStime	20:37:59
btchdate	22.Nov.96
btchtime	20:37:58

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Fri Aug 22 14:31:52 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	67.45	67.79	68.1	68.41	68.74	69.09	69.48	69.91	70.4	70.94	71.54	72.2	72.92	73.72	74.59	75.53	76.55	77.64	78.81	80.01	81.22	82.6	84.51	117.57
100	68.85	70.17	70.67	70.79	70.84	70.98	71.24	71.55	71.89	72.23	72.53	72.79	73.07	73.45	73.98	74.7	75.63	76.78	78.17	79.81	80.99	82.34	83.91	117.6
130	68.34	69.38	69.94	70.2	70.28	70.29	70.31	70.39	70.6	70.97	71.54	72.31	73.24	74.28	75.4	76.57	77.76	78.93	80.02	80.94	81.86	82.24	82.81	118.15
160	72.65	71.44	71.4	71.8	72.08	72.25	72.39	72.57	72.83	73.23	73.79	74.52	75.37	76.3	77.23	78.14	78.98	79.72	80.32	80.68	80.74	80.55	80.26	118.94
200	70.42	71.62	72.28	72.72	73.07	73.32	73.49	73.66	73.86	74.18	74.59	75.13	75.78	76.45	77.12	77.78	78.41	78.99	79.41	79.62	79.62	79.51	79.51	118.8
250	70.75	72.75	74	74.74	75.12	75.29	75.4	75.54	75.81	76.26	76.9	77.62	78.31	78.88	79.32	79.63	79.84	79.99	80.16	80.25	80.15	79.69	78.93	120.41
320	71.79	73.74	74.72	75.19	75.45	75.69	75.83	75.71	75.91	76.35	76.51	77.6	78.48	79.02	79.48	79.6	79.92	79.8	79.46	78.9	78.13	77.18	76.14	120.28
400	70.78	72.87	74.19	75.12	75.72	75.97	76.57	76.86	76.94	77.11	77.54	78.14	78.74	79.17	79.38	79.34	79.07	78.62	78.09	77.44	76.57	75.38	73.9	120.19
500	71.41	73.68	75.11	75.9	76.34	76.58	76.75	76.96	77.32	77.64	77.8	78.09	78.56	79.04	79.42	79.62	79.53	79.05	78.14	77.02	75.74	74.16	72.47	120.4
630	71.92	74.75	75.87	76.32	76.62	76.75	76.89	77.08	77.3	77.63	78.13	78.65	79.11	79.42	79.48	79.25	78.79	78.12	77.29	76.23	74.9	73.47	72.12	120.45
800	72.33	76.53	77.79	77.92	77.78	78.05	78.17	78.27	78.43	78.59	78.79	79.1	79.52	79.83	79.9	79.54	78.8	77.89	76.9	75.52	73.97	72.53	71.52	121.16
1000	73.14	76.77	77.62	77.72	77.84	78.08	78.25	78.46	78.7	79.02	79.23	79.39	79.6	79.9	80.24	80.01	79.1	77.96	76.7	75.26	73.74	72.37	71.32	121.33
1300	73.37	77.32	78.15	78.32	78.34	78.39	78.43	78.4	78.51	78.91	79.51	79.99	80.47	80.97	81.25	80.44	79.02	77.86	76.69	75.31	73.82	72.43	71.4	121.73
1600	73.26	77.84	78.27	78.39	78.5	78.57	78.58	78.81	78.77	78.96	79.55	80.31	81.13	81.72	82.31	81.77	79.97	78.13	76.77	75.45	73.63	72.33	71.35	122.2
2000	72.62	77.05	77.87	78.31	78.55	78.74	78.89	78.93	78.82	78.99	79.86	80.88	81.5	82.43	82.99	82.01	79.92	78.04	76.59	75.13	73.53	72.25	71.57	122.4
2500	72.28	77.15	77.43	78.02	78.51	78.88	78.85	78.77	78.88	79.23	79.71	80.35	81.19	82.07	82.66	81.63	79.4	77.52	76.2	74.83	73.18	71.8	71.11	122.2
3200	71.7	78.49	78.71	78.62	78.66	78.73	79.08	79	78.89	78.99	79.27	79.67	80.26	81	81.39	80.52	78.66	76.81	75.25	73.77	72.26	71.09	70.65	121.62
4000	70.88	78.01	78.65	77.87	78.33	78.37	78.81	78.58	78.57	78.81	78.82	79.07	78.22	79.26	79.45	78.71	76.92	75.11	73.68	72.29	70.86	69.86	69.63	120.79
5000	69.3	75.74	75.81	76.84	76.89	77.34	77.89	77.69	77.52	77.67	77.83	78.06	78.1	78.07	78.17	77.26	75.33	73.51	72.16	70.86	69.48	68.58	68.48	119.71
6300	68.73	74.38	75.03	75.96	75.97	76.3	77.33	76.94	76.84	77.18	76.93	76.9	76.87	76.91	76.7	75.68	73.93	72.18	70.88	69.79	68.51	67.79	67.69	118.72
8000	67.86	73.86	74.48	75.68	75.54	75.53	76.74	76.26	76.34	76.46	76.29	76.13	75.76	75.81	75.64	74.51	72.62	70.85	69.74	68.57	67.24	66.56	66.56	117.96
10000	66.13	72	71.94	73.39	74.23	73.81	74.12	73.25	73.46	73.76	73.26	72.37	72.27	72.88	73.18	72.38	70.22	67.72	66.45	65.35	63.79	62.78	62.85	115.35
OASPL	84.58	88.25	88.95	89.55	89.81	89.96	90.26	90.25	90.33	90.58	90.93	91.39	91.91	92.43	92.84	92.48	91.65	91.07	90.75	90.53	90.37	90.4	90.86	133.67

NASA Lewis Allison AST Jet Noise Test 1996

rdg	257
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
ambxc	35.02
amixb	78.39
scale	4
vid	811.86
m01	0.20219
pamb	14.4214
tamb	493.183
rhumid	74.9
winds1	0
nprc	1.392
nprb	1.439
ptc	20.0746
ptb	20.7524
wactc	2.547
wactb	13.488
ttc	1186.72
ttb	507.796
ptmix	20.6447
ttmix	615.637
mixpnd	0.667382
grsvixp	13018.2
badchan	(28)
bkgnd	248
escdate	22.Nov.96
esctime	20:37:59
DADSdate	97.08.20
DADStime	20:37:59
blchdate	22.Nov.96
blchtime	20:37:59

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Fri Aug 22 14:32:03 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance. (	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.24	49.44	49.49	49.43	49.45	49.46	51.62	49.87	48.5	51.9	51.71	51.65	51.69	51.82	52.03	53.94	53.57	53.34	53.08	52.88	52.43	51.88	50.7	117.1
100	45.32	46.41	49.38	49.72	49.91	48.14	50.47	51.48	50.95	50.49	50.25	52.17	52.18	51.85	51.51	51.28	54.23	54.52	54.7	54.59	54.01	52.91	51.12	117.67
130	47.5	48.52	48.98	51.02	51.09	50.86	52.3	50.28	50.25	51.76	51.84	52.17	52.83	55.27	55.64	55.79	55.62	55.27	55.88	54.83	53.26	50.99	48.09	118.47
160	50.51	50.98	51.23	51.44	52.77	52.6	53.38	52.39	52.18	53.08	53.27	53.6	54.66	54.71	54.71	54.67	55.31	54.99	54.24	53.28	52.52	50.42	47.6	118.42
200	48.2	49.5	51.73	52.43	53.73	53.73	55.07	53.39	53.09	53.52	53.53	54.48	54.56	54.8	55.51	55.1	54.28	54.74	53.98	53.04	51.45	49.93	46.52	118.52
250	49.72	52.04	53.82	54.87	56.07	55.57	55.6	55.11	56.21	56.31	57.17	57.37	58.24	58.23	58.4	57.84	57.5	56.1	54.51	53.01	50.58	47.13	42.94	120.51
320	48.38	50.46	52.08	53.52	54.48	54.69	55.36	55.1	54.94	55.28	55	55.98	56.44	56.45	56.31	55.63	54.89	53.62	52.49	50.3	47.78	44.75	40.28	118.79
400	47.91	51.11	53.02	54.04	54.52	54.84	55.34	55.94	56.12	56.28	56.66	56.89	56.85	56.99	56.71	56.31	55.12	53.88	51.68	49.53	46.66	42.67	37.47	119.24
500	47.69	50.69	52.47	53.61	54.62	54.84	55.1	55.69	56.12	56.4	56.43	56.58	56.77	56.71	56.25	55.34	54.23	52.34	50.33	47.63	44.23	40.21	35.19	118.78
630	47.93	51.99	54.01	54.58	54.99	55.47	55.95	55.43	55.57	55.98	56.13	56.24	56.32	56.36	55.85	54.63	52.78	51.11	48.85	45.8	42.33	38.1	33.01	118.55
800	48.05	52.37	53.77	54.62	55.04	55.58	55.75	56.18	56.38	56.19	56.22	56.3	56.19	56.05	55.83	55.12	53.33	51.01	48.29	45.08	41.17	36.57	31.1	118.65
1000	47.82	52.38	53.95	54.34	54.58	54.98	55.29	55.91	56.1	56.31	56.26	56.2	56.15	55.93	55.62	54.22	52.25	49.98	47.33	44.2	40.19	35.38	29.1	118.35
1300	48.34	52.21	52.82	53.56	54.31	54.7	54.85	55.38	55.37	55.63	56.03	56.09	56.27	56.18	56.01	54.83	52.18	49.3	46.18	42.84	38.35	33.25	26.75	118.08
1600	45.98	51.05	52.6	53.41	53.8	54.18	54.53	55.2	55.17	55.32	55.69	56.2	56.53	56.68	56.53	54.95	51.77	48.58	45.44	41.72	37.15	31.75	24.8	117.99
2000	44.26	49.82	50.93	51.82	52.61	53.14	53.51	54.82	54.47	54.57	55.19	55.41	55.78	56.21	56.11	54.08	50.49	47.11	43.88	40.05	35.2	29.26	21.72	117.15
2500	41.82	47.51	48.37	50.28	51.48	51.9	52.23	53.5	53.52	53.58	53.74	54.05	54.37	54.45	54.02	51.8	48.42	44.77	41.2	37.04	31.85	25.73	13.54	115.57
3200	38.45	44.26	45.69	47.72	48.71	49.04	49.86	52.27	52.08	52.04	52.03	51.83	51.61	51.35	50.61	48.42	44.99	41.24	37.35	32.8	27.11	18.52	0	113.12
4000	33.01	40.19	41.45	43.22	44.04	44.75	45.52	49.66	48.54	49.31	49.19	48.86	48.21	47.14	46.07	43.97	40.42	36.32	31.92	26.78	18.71	0	0	109.61
5000	24.21	32.76	34.38	36.25	37.36	38.22	39.43	45.37	45.04	44.95	44.51	44.05	43.13	41.98	40.67	37.85	33.73	29.2	24	13.88	0	0	0	104.51
6300	0	20.45	24.08	26.94	28.09	28.92	30.86	39.2	38.99	38.97	38.31	37.52	36.35	35.01	33.05	29.75	24.69	16.79	0	0	0	0	0	97.75
8000	0	0	0	0	0	0	6.81	30.44	30.42	30.07	29.02	27.68	25.54	23.37	20.04	8.41	0	0	0	0	0	0	0	87.87
10000	0	0	0	0	0	0	0	0	2.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.44
OASPL	59.61	62.84	64.27	65.15	65.77	66.07	66.8	66.81	66.89	67.17	67.37	67.65	67.91	68.01	67.88	67.08	66.06	64.93	63.86	62.55	61.01	59.07	56.61	130.53
PNL	67.97	72.76	74.09	75.13	75.88	76.29	76.81	76.93	76.94	77.08	77.21	77.42	77.58	77.56	77.2	75.6	73.06	70.45	67.76	65.13	61.92	58.05	52.88	77.39

NASA Lewis Allison AST Jet Noise Test 1996

rdg	255
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	915.89
m01	0.20181
pamb	14.4244
tamb	493.426
rhumid	73.84
winds1	0
nprc	1.538
nprb	1.612
ptc	22.1847
ptb	23.2521
wactc	2.719
wactb	16.044
ttc	1333.05
ttb	508.216
ptmix	23.0975
ttmix	627.745
mixpnd	0.745603
grsvhp	17184.8
badchan	(26)
bkgnd	246
escdate	22.Nov.96
esctime	20:25:49
DADSdate	22.Nov.96
DADStime	20:25:49
bichdate	22.Nov.96
bichtime	20:25:49

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:23.07 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	72.14	73.94	74.14	73.71	73.36	73.53	74.09	74.88	75.75	76.58	77.28	77.79
100	72.71	73.63	74.37	74.98	75.48	75.92	76.3	76.85	76.98	77.29	77.61	77.95
130	73.79	74.38	74.66	74.77	74.79	74.81	74.89	75.09	75.43	75.95	76.67	77.61
160	75.84	76.73	76.98	76.9	76.81	76.85	77.09	77.53	78.16	78.94	79.84	80.84
200	76.04	77.03	77.5	77.77	78.05	78.42	78.63	78.53	79.09	80.37	80.47	80.85
250	75.86	77.28	78.17	78.71	79.03	79.24	79.43	79.65	79.95	80.39	81	81.77
320	77.15	78.5	79.06	79.22	79.25	79.32	79.5	79.82	80.26	80.87	81.54	82.38
400	76.35	77.91	78.69	79.02	79.25	79.58	79.85	80.37	80.8	81.2	81.59	82.17
500	77.22	79.06	79.69	79.78	79.77	79.93	80.21	80.46	80.66	80.99	81.67	82.71
630	77.13	79.26	80.05	80.27	80.36	80.59	80.85	81.13	81.42	81.77	82.27	82.74
800	78.22	81.42	81.83	81.42	81.1	81.29	81.68	82.09	82.45	82.79	83.2	83.78
1000	79.27	82.12	82.58	82.4	82.32	82.54	82.69	82.95	83.12	83.52	83.83	84.15
1300	79.75	83.07	83.29	82.83	82.82	83.02	83.26	83.62	83.8	83.8	84.06	84.75
1600	80.38	83.44	83.67	83.23	83.07	83.32	83.55	83.98	84.29	84.61	85.04	85.67
2000	79.74	82.74	82.87	83.06	83.5	83.92	84.19	84.45	84.8	85.26	85.76	86.47
2500	78.82	82.04	82.71	82.99	83.29	83.71	84.19	84.62	84.89	85.31	85.98	87.03
3200	78.41	80.75	81.68	82.44	83.09	83.6	84.01	84.39	84.53	84.75	85.32	86.43
4000	77.09	79.52	80.43	81.18	81.88	82.6	83.26	83.7	83.88	84.06	84.48	85.47
5000	75.54	78.93	79.6	80.26	80.23	81.3	82.46	82.97	82.85	83.02	83.49	84.13
6300	74.36	77.84	78.35	79.05	78.73	80.03	81.59	82.15	82.16	82.35	82.33	82.84
8000	73.11	76.68	77.37	78.06	77.77	79.09	81.04	81.36	81.37	81.43	81.6	81.81
10000	70.87	74.24	74.17	75.33	75.72	77.01	78.21	78.6	78.45	78.45	78.71	77.94
OASPL	90.48	93.05	93.54	93.69	93.83	94.27	94.77	95.14	95.37	95.71	96.15	96.85

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	78.23	78.7	79.26	80.06	81.06	82.33	83.67	85.57	87.34	89.27	91.72	123.17
100	78.41	79.06	79.85	81.12	82.6	84.39	86.46	88.54	90.4	91.97	93.36	125.19
130	78.73	80	81.38	82.84	84.37	85.84	87.53	88.98	90.19	91.18	92.13	125.33
160	81.65	82.72	83.33	83.85	84.52	85.51	86.65	88.22	89.33	90.07	90.42	125.59
200	81.11	81.78	82.82	83.6	84.65	85.75	86.85	87.77	88.4	88.73	88.85	125.36
250	82.86	83.59	84.51	85.38	86.19	86.91	87.55	87.95	88	87.64	86.86	126.07
320	83.42	83.82	84.31	84.81	85.06	85.27	85.62	85.88	85.78	85.17	83.92	125.41
400	83.11	83.19	83.44	83.99	84.59	85.06	85.21	84.87	84.05	82.91	81.5	124.96
500	83.32	83.61	83.88	84.31	84.7	84.54	84.63	84.02	82.6	81.44	80.34	125.01
630	83.3	83.74	83.95	83.97	83.83	83.4	83.11	82.68	81.81	80.63	79.21	124.95
800	84.46	84.64	84.73	84.22	83.65	83.11	82.5	81.73	80.78	79.68	78.5	125.64
1000	84.58	84.98	84.81	84.02	83.27	82.88	82.13	81.14	80.08	79.08	78.1	126.05
1300	85.81	86.36	85.93	84.9	83.82	82.91	82.08	81.15	80.04	79.08	78.25	126.72
1600	86.77	87.44	86.91	85.32	83.69	82.7	82	81.04	79.83	78.79	78.21	127.3
2000	87.45	88.17	88.03	86.23	83.93	82.76	82.42	81.09	80.25	79.11	78.57	127.62
2500	88.59	89.33	88.71	86.77	84.52	82.87	81.87	80.74	79.43	78.66	78.49	128.19
3200	87.79	88.64	88.11	86.46	84.46	82.54	81.21	80.02	78.85	78.18	78.09	127.66
4000	86.39	86.43	86.07	85.09	83.34	81.46	80.1	78.69	77.29	76.71	76.92	126.41
5000	84.6	84.32	83.88	82.79	80.92	79.21	77.91	76.48	75.08	74.83	74.92	124.92
6300	83.23	82.6	81.75	80.49	78.77	77.11	75.79	74.55	73.46	72.91	72.83	123.58
8000	81.69	80.99	79.97	78.68	77.09	75.73	74.61	73.33	72.1	71.63	71.62	122.51
10000	77.98	77.29	76.42	75.49	74.1	72.33	70.98	69.56	68.2	67.65	67.87	119.44
OASPL	97.77	98.23	98.09	97.44	96.94	96.89	97.28	97.78	98.23	98.76	99.45	139.11

NASA Lewis Allison AST Jet Noise Test 1996

rdg	255
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
ambc	35.02
ambb	78.39
scale	4
vid	915.89
m01	0.20191
pamb	14.4244
tamb	493.426
rhumid	73.84
winds1	0
nprc	1.536
nprb	1.612
ptc	22.1847
ptb	23.2521
wactc	2.719
wactb	16.044
ttc	1333.05
ttb	508.216
ptmix	23.0975
ttmix	627.745
mixpnd	0.745603
grsvlxp	17184.8
badchan	(26)
bkgnd	248
escdate	22.Nov.96
esctime	20:25:49
DADSdate	22.Nov.96
DADStime	20:25:49
blchdate	22.Nov.96
blchtime	20:25:49

**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Wed Aug 20 01:23:14 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	48.29	52.16	52.85	53.03	53.53	53.95	56.66	54.83	53.88	57.85	57.57	57.15	56.71	56.37	56.2	58.62	58.64	59.1	59.8	60.56	60.67	60.5	59.29	123.57
100	50.66	51.18	53.92	54.26	54.48	53.73	55.07	56.58	55.99	55.38	55.12	57.35	57.61	57.62	57.59	57.71	61.01	61.68	62.31	62.87	62.53	61.82	60.35	124.94
130	53.62	54.29	53.99	55.52	55.34	55.25	57	54.97	55.06	57.41	57.49	57.46	57.71	60.04	60.23	60.49	60.73	61.23	62.8	62.91	62.44	61.03	58.63	125.16
160	53.42	55.84	56.28	56.41	57.79	57.74	58.54	57.35	57.39	59.02	59.4	59.88	61.04	60.95	60.92	60.86	61.53	61.45	61.25	60.96	60.92	59.33	58.62	125.03
200	54.05	55.12	56.79	57.09	58.15	58.22	59.2	58.26	58.2	59.79	59.47	59.89	59.86	59.61	61.14	61.35	61.36	62.31	61.82	60.98	59.43	58.1	54.76	124.91
250	54.53	56.49	58.05	58.95	58.95	59.12	59.21	59.22	60.16	60.24	61.43	61.83	62.87	62.98	63.18	62.64	62.56	61.66	60.79	60.02	58.2	55.18	50.94	125.48
320	54.31	55.85	56.78	57.31	57.91	58.44	58.7	59.21	59.53	60.02	59.75	60.45	61.27	61.02	61.08	60.88	60.61	59.85	59.36	57.8	55.19	52.22	47.72	123.89
400	53.44	55.96	57.34	58.1	58.38	58.54	58.98	59.47	59.96	60.27	60.57	60.81	60.88	60.77	60.74	60.95	60.44	59.56	58.22	56.57	53.55	50	45.39	123.74
500	53.16	55.55	56.79	57.7	58.18	58.63	58.99	59.2	59.33	59.62	60.29	60.91	61.3	61.04	60.45	59.74	59.15	57.77	58.52	54.34	51.17	47.31	42.36	123.12
630	53.37	56.54	57.94	58.07	58.35	58.79	59.44	59.48	59.67	60.15	60.51	60.84	60.94	61.03	60.52	59.48	58.09	56.64	54.72	52.26	49.45	45.53	40.05	122.99
800	53.86	57.55	58.44	58.88	59.27	59.85	60.17	60	60.42	60.36	60.52	60.83	61.27	61.23	60.73	59.26	57.56	55.94	53.61	50.87	47.54	43.39	37.96	123.21
1000	53.97	57.87	58.67	58.59	59.01	59.51	59.99	60.4	60.46	60.8	60.87	61.01	61.19	60.99	59.96	58.35	56.64	54.76	52.35	49.28	45.67	41.51	35.76	123
1300	53.55	57.86	58.83	58.86	59.01	59.44	59.66	60.56	60.74	60.74	60.91	61.17	61.99	62.06	61.06	58.9	56.32	54.11	51.82	48.94	45.07	40.25	33.92	123.26
1600	53.34	56.81	57.5	58.04	58.64	59.29	59.6	60.36	60.69	60.99	61.2	61.51	62.06	62.24	61.05	58.56	55.54	53.02	51.06	48.1	43.63	38.36	31.73	123.12
2000	50.89	54.87	55.99	56.76	57.51	58.21	58.83	60.14	60.47	60.76	61.13	61.6	62.29	62.54	61.38	58.58	55.14	52.31	49.68	46.19	41.7	38.37	29.19	122.82
2500	48.52	52.24	53.71	54.88	55.87	56.76	57.26	59.33	59.58	59.74	60.09	60.92	61.98	62.03	60.67	57.59	53.94	50.39	47.12	43.23	38.37	32.7	24.6	121.85
3200	44.81	48.2	49.82	51.36	52.49	53.47	54.32	57.67	57.72	57.74	57.86	58.33	58.97	58.7	57.1	54.6	51.33	47.44	43.51	39.05	33.64	27.02	14.38	119.06
4000	39.02	43.42	45.33	46.69	47.43	48.74	49.97	54.8	54.87	54.61	54.84	55.16	55.27	54.06	52.48	50.03	46.33	42.15	38.1	32.96	26.36	16.05	0	115.3
5000	30.97	36.16	38.06	39.48	40.1	41.96	43.79	50.58	50.31	50.19	50.15	50	49.53	48.22	48.12	42.96	38.98	34.56	29.55	22.79	-2.12	0	0	109.93
6300	16.36	24.81	27.66	30.09	30.67	32.88	34.91	44.43	44.39	44.22	43.73	43.23	42.64	40.51	37.83	34.29	29.81	24.13	14.5	0	0	0	0	103.09
8000	0	0	0	0	0	13.05	18.58	35.48	35.46	35.06	34.53	33.57	32.1	29.05	25.36	18.98	3.98	0	0	0	0	0	0	93.27
10000	0	0	0	0	0	0	0	19.06	17.84	16.55	15.48	8.52	0	0	0	0	0	0	0	0	0	0	0	74.57
OASPL	65.13	67.89	68.96	69.47	69.96	70.35	70.96	71.4	71.62	72.11	72.34	72.76	73.26	73.33	72.87	72.01	71.48	71.01	70.7	70.15	69.29	67.9	65.69	136.06
PNL	74.45	77.8	78.96	79.7	80.36	80.98	81.67	82.2	82.39	82.69	82.93	83.47	84.12	84.05	83.01	80.89	78.5	76.2	74.36	72.49	69.9	67.04	62.58	83.15

NASA Lewis Allison AST Jet Noise Test 1996

rdg	254
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nalrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vld	971.72
m01	0.19975
pamb	14.4327
tamb	494.239
rhumid	72.62
winds1	0
nprc	1.743
nprb	1.823
ptc	25.1562
ptb	26.3106
wactc	3.143
wactb	18.431
ttc	1419.13
ttb	507.557
ptmix	26.1426
ttmix	640.359
mixpnd	0.783222
gravixp	20963.9
badchan	(26)
bkgnd	246
eacdate	22.Nov.96
eactime	20:16:36
DADSdate	97.08.16
DADStime	20:16:36
bkchdate	22.Nov.96
bkchtime	20:16:36

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Mon Aug 18 11:34:16 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	76.01	77.06	77.13	77.06	77.46	78.47	79.16	78.59	78.15	79.42	80.86	81.46
100	78.42	79.38	79.63	79.7	79.92	80.43	80.92	80.92	80.78	81.1	81.66	82.24
130	81.72	80.04	79.55	80.26	80.55	79.6	78.9	79.86	80.97	80.41	80.5	82.03
160	80.92	82.01	81.89	81.46	81.29	81.08	81.09	82.35	82.32	82.8	83.76	83.97
200	80.61	81.67	81.67	81.43	81.46	81.96	82.44	82.36	82.56	83.28	83.39	84.11
250	80.44	81.1	81.46	81.87	82.34	82.83	83.2	83.35	83.4	83.73	84.72	85.84
320	81.57	82.25	82.56	81.89	82.02	82.44	82.94	83.42	83.78	84.2	84.81	85.21
400	80.79	82.5	82.9	82.54	82.57	83.41	84.03	84.46	84.7	85.23	85.62	86.08
500	81.37	82.39	83.12	83.41	83.58	83.72	83.72	83.9	84.24	84.87	84.94	85.63
630	81.86	83.62	83.82	83.8	83.98	84.31	84.38	84.78	85.34	85.66	86.19	86.79
800	82.2	84.78	84.99	84.84	84.66	85.17	85.39	85.84	86.01	86.34	87.05	87.74
1000	83.95	86.18	86.25	85.85	85.99	86.26	86.51	86.8	87.45	87.96	88.53	89.38
1300	84.85	87.46	87.12	86.69	86.99	87.18	87.16	87.48	87.73	88.11	88.96	90.18
1600	86.06	88.41	88.18	87.82	87.66	87.71	87.93	88.27	88.76	89.4	90.23	91.66
2000	87.17	89.07	88.91	88.58	88.7	89.06	89.2	89.33	89.48	90.06	91.54	93.08
2500	87.18	89.16	89.29	89.21	89.27	89.49	89.79	89.87	90.34	91.18	92.59	94.44
3200	87.51	89.07	89.23	89.43	89.85	89.96	90.32	90.65	91.11	92.11	93.5	95.31
4000	87.39	89.04	89.56	89.79	89.55	89.77	90.62	90.77	91.45	92.48	94.01	95.54
5000	86.77	88.91	89.25	89.34	88.82	89.28	89.92	90.2	90.72	91.92	93.33	94.79
6300	87.03	88.61	88.91	89.01	88.89	88.94	89.37	89.66	90.2	91.25	92.33	93.64
8000	85.7	88.06	88.51	88.78	88.71	88.15	89.4	89.27	89.78	90.81	91.57	92.93
10000	83.65	85.58	85.63	86.47	87.23	87.6	86.84	86.81	87.22	87.57	88.49	89.07
OASPL	97.8	99.8	99.76	99.76	99.8	100.08	100.38	100.6	101.03	101.8	102.92	104.28

distance: (	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	81.65	81.99	82.89	84.34	86.08	87.88	89.8	91.21	92.75	94.44	96.73	128.02
100	82.91	83.76	84.83	86.16	87.76	89.62	91.72	93.81	95.72	97.44	99.16	130.39
130	83.07	83.82	84.76	86.05	87.69	89.65	91.87	94.07	96.07	97.85	99.59	130.58
160	84.59	85.92	87.62	88.45	88.84	89.75	91.75	94	95.98	97.48	98.38	130.94
200	84.82	86.16	87.63	87.98	88.1	89.31	91.02	92.53	93.56	94.16	94.44	129.88
250	85.99	88.23	89.03	89.2	90.17	91.61	93.19	94.2	94.4	94.16	93.9	130.91
320	86.27	87.75	88.32	88.84	90.18	91.33	90.98	90.91	91.47	91.16	90.05	129.77
400	86.97	88.27	89.09	89.27	89.53	90.03	90.31	90.15	89.64	89.04	88.38	129.67
500	87.14	87.72	88.43	88.73	89.14	89.99	89.09	88.13	87.95	87.53	86.4	129.14
630	87.22	88.05	88.39	88.62	88.85	88.59	88.29	87.7	86.71	85.14	83.7	129.23
800	88.15	88.52	88.7	88.41	88	87.87	87.34	86.66	85.82	84.43	82.97	129.55
1000	89.78	89.58	89.05	88	87.3	87.39	86.88	85.91	84.77	83.64	82.44	130.39
1300	90.74	91.12	89.95	88.4	87.54	87.03	86.46	85.63	84.52	83.41	82.45	131.06
1600	92.82	93.23	91.32	89.07	87.88	87.17	86.55	85.65	84.46	83.39	82.71	132.25
2000	94.69	95.36	93.06	90.31	88.63	87.48	87.01	86.27	84.91	83.75	83.08	133.56
2500	96.27	97.44	95.47	92.24	90.01	88.74	87.75	88.56	85.23	84.17	83.63	134.88
3200	96.86	97.88	96.13	93.15	90.99	89.61	88.42	87.13	85.79	84.81	84.45	135.51
4000	96.93	97.14	95.8	93.02	90.71	89.31	88.27	86.92	85.41	84.56	84.47	135.44
5000	96.05	95.82	94.58	92.27	89.65	88.39	87.35	85.99	84.54	83.78	83.65	134.84
6300	95.02	94.94	93.21	90.87	88.79	87.24	86.15	84.87	83.5	82.76	82.52	133.77
8000	93.93	93.58	91.9	89.56	87.54	86.26	85.33	83.98	82.45	81.66	81.15	133
10000	90.34	90.3	88.81	86.88	84.99	83.26	82.34	81.06	79.14	77.71	77.2	130.11
OASPL	105.55	106.04	104.78	103.07	102.21	102.26	102.86	103.28	104.06	104.9	105.9	145.5

NASA Lewis Allison AST Jet Noise Test 1998

rdg 254
run 1
test_prog Allison98
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
nacbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
ambic 35.02
ambb 78.39
scale 4
vid 971.72
m01 0.19975
pamb 14.4327
tamb 494.239
rhumid 72.62
winds1 0
nprc 1.743
nprb 1.823
ptc 25.1582
ptb 26.3108
wactc 3.143
wactb 18.431
ttc 1419.13
ttb 507.557
ptmix 26.1428
ttmix 640.359
mixpnd 0.783222
grswtp 20963.9
badchan (26)
bkgnd 246
escdate 22.Nov.98
esctime 20:18:36
DADSdate 97.08.18
DADStime 20:18:36
bichdate 22.Nov.98
bichtime 20:18:36
**Scenario: Fly-over, full-scale, 1500' sideline, standard day
Processing date: Mon Aug 18 11:34:26 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	54.87	58.46	58.55	58.4	58.37	58.38	61.22	58.55	58.26	60.8	61.32	61.15
100	56.82	57.03	59.25	58.42	59.4	58.28	59.07	60.84	58.81	59.46	58.5	62.21
130	59.87	59.16	58.74	60.61	60.48	59.86	60.97	59.75	60.67	61.43	61.1	61.41
160	58.76	61	60.86	60.42	61.3	61.4	62.38	62.16	61.64	62.85	63.16	63.07
200	58.17	59.37	60.38	60.34	61.48	61.91	62.95	62.09	61.69	62.81	62.55	63.66
250	58.75	60.08	61.34	61.58	61.72	62.15	62.6	62.92	63.6	63.76	64.97	65.22
320	58.14	59.5	60.36	60.37	61.03	62.21	62.76	62.81	63.14	63.49	63.37	64.04
400	58.09	60.09	61.25	61.84	61.98	62.09	62.49	63.54	63.84	64.37	64.66	64.44
500	57.61	59.34	60.18	61.04	61.87	62.49	62.54	62.65	62.94	63.27	63.72	64.17
630	57.78	60.43	61.45	61.61	61.95	62.61	63.18	63.12	63.65	64.02	64.38	64.84
800	57.95	61.45	62.13	62.29	62.75	63.42	63.9	63.73	64.02	64.11	64.62	65.23
1000	58.83	61.98	62.52	62.52	63.15	63.63	63.92	64.23	64.82	65.29	65.57	66.01
1300	59.11	62.2	62.56	63	63.48	63.81	64.21	64.43	64.69	65.12	65.88	66.78
1600	59.54	62.86	63.02	63.13	63.62	64.35	64.79	64.88	65.15	65.72	66.55	67.75
2000	58.72	61.69	62.52	62.82	63.35	63.85	64.42	65.01	65.14	65.59	67	68.34
2500	57.41	59.83	60.71	61.42	62.42	62.66	63.4	64.58	65.09	65.84	66.97	68.42
3200	54.44	57.22	58.49	58.56	60.05	60.52	61.58	63.9	64.34	65.25	66.41	67.73
4000	49.72	53.08	54.59	55.47	55.62	56.57	57.41	61.83	62.43	63.23	64.43	65.43
5000	42.59	46.34	48.01	49.33	49.78	50.73	51.48	57.81	58.2	59.14	60	60.77
6300	32.87	36.5	38.87	40.37	41.28	42.31	43.38	51.86	52.35	53.08	53.63	54.31
8000	5.8	19.32	23.06	25.34	27.18	28.93	29.06	43.41	43.84	44.35	44.51	44.73
10000	0	0	0	0	0	0	0	29.08	29.19	28.76	28.5	27.34
OASPL	70.47	72.73	73.44	73.78	74.27	74.69	75.33	75.76	76.04	76.64	77.33	78.18
PNL	81.3	84.01	84.87	85.33	85.85	86.33	86.86	87.46	87.83	88.58	89.46	90.52

distance (	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	60.57	60.19	60.47	63.8	64.45	65.17	65.89	66.54	66.8	66.54	65.74	129.15
100	62.79	63.02	62.91	62.89	65.08	65.69	66.53	67.29	67.72	67.72	67.22	130.03
130	61.55	63.25	64.1	64.61	64.8	65.88	67.95	68.89	69.25	68.69	67.01	130.96
160	64.33	64.89	65.26	64.78	64.95	64.92	65.47	66.01	65.78	65.19	62.68	129.41
200	63.38	64.2	65.98	65.96	65.57	66.74	67.04	66.86	65.69	64.29	61.34	129.7
250	65.85	67.17	67.47	67.05	67.68	67.87	66.78	65.81	64.17	61.3	57.63	130.07
320	64.77	65.89	65.79	65.3	65.87	65.76	64.93	63.07	60.95	58.2	54.26	128.45
400	64.85	65.72	66.05	65.61	64.79	65.09	63.1	60.94	58.74	55.73	51.53	128.17
500	64.73	64.9	64.81	64.56	64.17	62.72	61.06	59.05	56.29	52.01	46.71	127.14
630	64.86	65.12	64.61	63.71	62.77	61.84	60.1	57.38	54.15	49.96	44.6	127.08
800	65.48	65.32	64.79	63.22	61.5	60.32	58.23	55.57	52.11	47.99	42.11	127.16
1000	66.17	65.56	64.08	62.33	60.66	59.15	57.19	54.43	50.8	46.2	40.02	127.37
1300	67.29	67.24	65.08	62.38	60.41	58.42	56.22	53.34	49.57	44.76	38.39	127.82
1600	68.66	68.79	65.99	62.55	59.9	57.57	55.28	52.35	48.2	43	36.12	128.51
2000	69.56	69.95	67.34	63.47	60.35	57.78	55.13	51.55	46.95	41.45	34.02	128.96
2500	69.74	70.18	67.49	63.38	59.93	57.02	53.81	49.89	44.97	38.85	30.59	128.77
3200	68.75	68.89	66	61.97	58.23	54.85	51.32	48.94	41.43	34.66	25.23	127.58
4000	65.97	65.02	62.52	58.73	54.57	50.92	47.12	42	35.4	27.29	5.59	124.66
5000	61.28	58.97	57.06	52.92	48.44	44.12	39.51	33.82	25.73	3.88	0	119.84
6300	54.54	52.9	49.53	44.99	40.16	35.28	29.67	21.18	0	0	0	113.13
8000	44.25	42.05	37.98	32.71	26.81	19.03	0	0	0	0	0	103.39
10000	28.17	23.12	15.99	0	0	0	0	0	0	0	0	86.98
OASPL	78.88	79.16	77.98	76.6	78.1	75.98	75.81	75.59	75.11	74.25	72.64	141.2
PNL	91.32	91.51	89.47	88.5	84.15	82.25	80.31	78.52	76.25	73.75	70.3	89.52

NASA Lewis Allison AST Jet Noise Test 1996

rdg	259
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engr	Ray Castner
naebld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	550.53
m01	0.30124
pamb	14.366
tamb	492.589
rhumid	78.21
winds1	0
nprc	1.171
nprb	1.211
ptc	16.8226
ptb	17.3972
wactc	1.548
wactb	9.12
ttc	1121.56
ttb	507.723
ptmix	17.3139
ttmix	596.697
mixpnd	0.459685
grsvisp	5871.95
badchan	(26)
bkgnd	247
escdate	22.Nov.96
esctime	20:50:06
OADSdate	22.Nov.96
OADStime	20:50:06
bkchdate	22.Nov.96
bkchtime	20:50:06

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 20 01:28:20 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.93
250	56.96	64.72	67.32	68.65	68.97	68.24	68.62	69.15	69.29	69.8	69.65	69.9	70.34	70.88	71.31	71.24	70.65	70.5	70.61	70.24	66.93	65.47	0	112.29
320	63.69	67.7	68.98	69.49	69.8	69.23	68.99	69.26	69.84	70.42	71.09	71.95	72.03	72.06	72.19	72.06	71.67	71.55	71.35	69.9	66.59	65.33	63.87	113.32
400	58.83	64.85	67.1	68.17	68.23	69.33	68.96	69.87	69.94	69.78	70.59	71.12	71.16	70.75	70.49	70.35	70.27	69.07	67.93	66.56	64.51	63.77	62.14	112.15
500	56.77	66.38	68.1	68.65	68.53	69.42	70	70.24	70.24	70.86	71.68	72.27	72.84	73.27	73.61	73.74	73.52	72.82	71.59	70.03	67.93	66.79	64.77	113.97
630	60.74	67.07	68.55	68.64	68.41	69.21	69.51	69.74	70.06	70.48	70.87	71.38	72.13	72.9	73.44	73.52	72.85	71.49	69.84	68.34	66.65	65.99	65.19	113.47
800	58.74	66.42	67.4	66.96	66.99	68.25	68.84	68.97	69.88	70.25	70.72	71.42	71.97	72.37	72.46	72.1	71.24	69.91	68.35	66.88	65.72	65.03	64.98	112.68
1000	58.27	65.52	66.24	65.98	66.58	67.48	68.1	69.02	69.51	69.76	70.46	70.72	70.75	70.83	70.92	70.83	70.29	69.22	67.94	66.62	64.86	63.81	63.65	111.84
1300	57.57	65.26	65.57	65.6	66.07	67.04	67.64	67.97	68.07	68.01	68.15	68.57	68.54	68.77	69.11	69.28	68.8	67.44	65.72	64.25	63.06	62.46	62.58	110.32
1600	58.29	64.71	64.51	64.72	65.31	66.15	66.72	67.24	67.86	67.82	68.02	67.96	68.11	68.77	68.87	68.25	67.92	66.89	65.46	64.33	63.27	62.33	61.86	109.8
2000	52.81	63.52	63.55	64.25	64.87	65.69	66.25	66.81	66.87	66.7	66.81	67.07	67.12	67.13	66.86	66.21	65.23	64.09	62.89	61.78	60.9	60.59	60.53	108.55
2500	56.85	63.62	64.19	64.47	65.2	66.05	66.45	66.96	67.31	67.05	66.81	66.52	66.52	66.93	66.39	64.99	64.18	63.23	61.99	60.63	59.91	59.41	59.43	108.44
3200	56.47	63.59	64.17	64.55	65.54	66.84	67.8	67.8	68.02	67.9	67.67	67.45	67.1	67.12	66.75	65.82	64.81	63.73	62.51	61.25	60.11	59.35	58.97	109.07
4000	56.22	63.39	64.1	64.53	65.22	66.66	67.48	67.65	67.8	67.64	67.48	67.3	66.97	66.74	66.31	65.62	64.89	63.96	62.83	61.57	60.13	58.97	58.9	108.9
5000	56.89	62.88	63.53	64.01	64.49	65.96	67.03	67.48	67.66	67.37	67.24	67.1	66.93	66.42	65.8	65.16	64.24	63.21	62.15	61.03	59.9	58.96	58.94	108.53
6300	65.02	63.05	63.78	64.55	65.15	66.23	67.34	67.79	68.08	67.85	67.48	67.32	67.37	67.07	66.29	65.15	63.92	62.78	61.79	60.85	59.9	59.11	59.21	108.92
8000	59.83	64.13	64.72	66.25	65.86	66.76	68.07	68.49	68.84	68.35	68.22	68.04	67.93	67.62	66.86	65.67	64.24	63.09	62.22	61.26	60.21	59.32	59.44	109.5
10000	70.72	63.96	63.69	64.51	65.54	66.45	66.43	67.01	67.23	66.4	66.74	65.86	65.82	66.02	65.64	64.63	63.31	61.86	60.56	59.62	58.68	57.86	57.55	108.46
OASPL	74.13	77.3	78.34	78.81	79.13	79.77	80.33	80.76	81.06	81.14	81.45	81.75	81.96	82.16	82.23	81.96	81.41	80.51	79.49	78.25	76.24	75.29	74.12	123.36

NASA Lewis Allison AST Jet Noise Test 1996

rdg	259
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	550.53
m01	0.30124
pamb	14.358
tamb	492.589
rhumid	78.21
winds1	0
nprc	1.171
nprb	1.211
ptc	16.8228
ptb	17.3972
wacic	1.548
wacib	9.12
ttc	1121.58
ttb	507.723
ptmix	17.3138
ttmix	596.697
mixpnd	0.459685
gravicp	5871.95
badchan	(26)
bkgnd	247
escdate	22.Nov.96
esctime	20:50:06
DADSdate	22.Nov.96
DADStime	20:50:06
btchdate	22.Nov.96
btchtime	20:50:06

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 20 01:28:26 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (i	1831.18	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
180	0	0	0	38.82	44.08	45.84	48.12	0	0	0	0	41.61	41.1	45.08	44.98	46.9	45.34	46.18	0	0	0	0	0	108.7
200	38.07	45.3	48.2	49.74	50.06	49.55	48.93	48.71	50.04	51.01	51.7	51.55	51.89	51.64	51.04	49.82	48.84	47.37	45.25	43.81	40.9	37.04	0	113.6
250	39.45	43.8	44.2	45.72	46.62	47.18	47.88	48.66	48.74	48.51	47.78	48.19	47.85	47.51	47.44	48.94	45.95	43.7	46.03	43	37.5	34.15	29.64	110.9
320	35.57	42.85	45.58	48.92	46.47	47.73	48.58	48.95	49.38	49.12	49.7	49.56	49.85	50.01	50.02	49.79	49.09	47.81	41.98	39.18	35.75	32.68	27.79	112.13
400	32.28	43.46	45.85	46.56	46.36	47.22	47.81	48.96	49	49.61	50.24	50.49	50.59	50.33	50.41	49.58	47.75	45.37	45.05	42.12	38.17	34.58	29.3	112.26
500	37.18	43.68	45.28	45.28	45.12	46.27	46.77	48.09	48.46	48.93	49.2	49.51	49.43	49.35	48.74	47.77	45.95	43.88	42.68	39.67	38.1	32.82	28.66	111.06
630	33.68	41.92	42.91	43.11	43.84	44.8	45.55	46.9	47.2	47.53	47.82	48.17	48.05	47.76	47.18	46.24	44.73	42.22	40.73	37.42	33.94	30.33	26.03	109.57
800	32.14	40.53	41.73	41.85	42.84	43.86	44.55	46.46	47.06	46.76	46.95	46.68	45.93	45.21	44.55	43.64	41.96	39.41	38.41	36.19	32.16	28.06	23.38	108.07
1000	31.37	39.56	40.22	40.59	41.47	42.58	43.17	44.93	44.73	44.53	44.28	44.06	43.92	43.87	43.25	42.17	40.83	38.3	36.24	32.9	29.26	25.16	20.08	106.24
1300	31.11	38.21	38.12	39.2	40.18	41.18	41.98	43.63	43.99	44.01	43.75	43.35	43.04	42.51	41.48	38.71	37.55	34.98	35.15	31.95	28.12	23.43	17.14	104.98
1600	24.54	35.67	36.94	38.01	38.11	40.31	40.88	42.5	42.59	42.28	41.91	41.49	40.82	40.83	38.4	37.01	34.87	32.46	31.8	28.28	24.41	20.05	9.32	103.22
2000	26.4	34.53	35.87	36.77	38.19	39.76	40.65	41.69	41.94	41.55	41.28	40.88	40.28	39.88	38.36	36.39	34.17	31.4	29.37	25.9	21.78	12.6	0	102.45
2500	23.43	31.62	33.19	34.27	35.82	37.38	38.34	41.04	41.29	41	40.38	39.82	38.92	38.15	36.76	34.62	32.33	29.55	28.15	24.22	18.55	0	0	101.07
3200	17.52	27.18	28.98	30.35	31.52	33.38	34.62	38.68	38.84	38.46	37.94	37.32	36.32	34.81	33.18	31.18	28.64	25.44	26.04	21.18	0.18	0	0	98.15
4000	18.7	17.92	21.19	23.53	25.63	27.45	29.21	35.09	35.19	34.89	34.17	33.18	32.42	31.23	29.25	28.58	22.5	12.71	20.3	4.24	0	0	0	93.94
5000	0	0	0	0	4.71	15.11	19.73	29.87	30.28	29.91	29.18	28.58	27.58	25.74	22.58	15.48	0	0	0	0	0	0	0	88.34
6300	0	0	0	0	0	0	0	20.86	21.19	20.04	18.99	15.69	10.04	0	0	0	0	0	0	0	0	0	0	77.57
8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	45.24	52.38	54.21	55.29	55.81	56.53	57.16	57.58	57.99	58.2	58.45	58.56	58.53	58.43	58.05	57.37	56.04	54.38	52.34	49.61	45.65	42.22	35.9	120.8
PNL	51.58	58.47	60.74	62.01	63.04	64.34	65.2	65.66	65.95	65.8	65.53	65.44	65.1	64.79	64.25	63.18	61.65	59.58	56.63	53	48.01	42.81	35.18	63.67

NASA Lewis Allison AST Jet Noise Test 1996

rdg	260
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nairbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	OP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	801.64
m01	0.30178
pamb	14.3662
tamb	492.166
rhumid	75.38
windst	0
nprc	1.391
nprb	1.438
ptc	19.9634
ptb	20.6586
wacic	2.499
wacib	13.326
ttc	1186.35
ttb	508.759
ptmix	20.562
ttmix	614.392
mixpnd	0.659648
gravisp	12680
badchan	{26}
bkgnd	247
escdate	22.Nov.96
esctime	20:55:12
DADSdate	97.08.25
DADStime	20:55:12
btchdate	22.Nov.96
btchtime	20:55:12

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 10:12:29 1997

Data ambi	14.30 psia
Data ambi	536.0 R
Data ambi	70.00%
Data scale	1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	66.09	68.76	68.83	69.44	68.1	69.09	68.68	68.84	68.93	69	69.02	69.2
100	62.64	68.6	68.66	69.6	71.17	71.2	71.13	70.97	70.6	70.14	69.83	69.86
130	66.37	69.13	69.41	68.56	68.24	68.48	68.78	68.86	68.53	69.15	69.14	69.39
160	63.79	67.17	67.36	67.77	68.97	69.53	70.18	70.78	71.3	71.67	71.84	71.93
200	67.6	69.24	69.37	69.65	69.95	69.3	71.41	70.72	71.05	71	70.72	71.24
250	68.12	71.13	72.9	73.32	73.01	73.27	73.21	73.25	73.09	73.58	74.17	73.72
320	69.62	72.34	73.96	73.33	74.06	73.89	73.03	73.93	74.74	74.78	74.29	75.34
400	69.46	73	74.69	74.14	74.55	74.01	75.35	75.89	75.59	75.29	76.3	76.57
500	68.98	73.26	74.54	74.76	74.73	74.71	74.85	74.99	75.84	75.66	76.24	76.47
630	69.73	73.8	75.12	75.01	74.97	75.57	75.2	75.36	75.76	76.09	76.17	76.3
800	71.1	76.3	77.64	76.75	76.98	76.86	76.65	76.56	76.74	77.43	77.15	77.69
1000	71.99	76.46	77.11	76.32	76.71	76.49	76.68	77.18	77.22	77.56	77.86	77.59
1300	71.96	76.54	77	77.14	77.56	77.29	77.05	77.1	77.37	77.7	77.93	77.83
1600	72.11	76.82	77.24	77.35	77.57	77.13	76.73	77.26	77.77	78.06	78.49	78.73
2000	71.74	76.48	77.66	77.29	77.81	77.98	77.37	77.53	77.82	77.97	78.55	79.43
2500	72.02	76.3	77.46	77.34	77.74	77.62	77.09	77.56	77.74	77.7	78.36	78.78
3200	71.55	75.78	77.27	77.81	77.94	77.95	77.8	77.57	77.63	77.82	78.04	78.01
4000	70.78	75.64	76.64	77.66	77.44	77.62	77.63	77.04	77.45	77.49	77.77	77.79
5000	69.92	75.14	76.14	76.7	75.92	76.91	76.97	76.57	76.82	76.74	77.1	77.01
6300	69.23	73.94	75.2	75.64	74.94	75.85	76.12	75.73	76.2	76.2	75.9	75.79
8000	68.67	73.46	74.53	75.18	74.99	75.45	75.8	75.54	76.14	75.78	75.81	75.7
10000	67.99	71.89	71.78	73.18	73.93	74.36	73.03	72.97	73.5	73.07	73.67	71.98
OASPL	83.22	87.51	88.55	88.62	88.77	88.99	88.78	88.83	89.11	89.22	89.5	89.66

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	69.5	69.86	70.25	70.59	70.77	70.48	70.82	72.18	74.07	75.68	78.07	112.96
100	70.37	71.07	71.52	71.44	71.46	73.11	75.28	76.13	76.67	77.78	79.12	114.74
130	70.18	70.8	71.28	71.78	72.07	72.91	73.91	74.37	74.84	76.01	78.32	113.65
160	72.34	73.22	73.61	73.24	72.71	73.06	73.96	74.55	75.35	76.46	77.35	114.81
200	71.58	71.73	72.04	72.08	71.74	72.11	72.87	73.15	73.64	74.69	75.65	114.21
250	76.05	76.68	76.68	77.26	77.3	77.12	76.87	76.34	75.95	76.06	75.91	117.75
320	75.78	76.44	77.25	77.33	76.56	76.14	75.84	74.86	74.03	73.75	73.51	117.84
400	76.53	76.46	76.43	76.3	75.86	75.33	75.01	73.98	72.8	72.06	72.29	118.19
500	76.74	76.78	77.1	77.29	76.8	75.72	74.76	73.75	72.5	71.16	70.58	118.36
630	76.15	76.58	76.85	76.25	74.92	73.85	73.31	73.08	72.15	70.45	69.58	118.21
800	77.66	77.73	77.95	77.4	75.76	74.32	73.51	73.04	72.05	70.51	69.89	119.55
1000	77.12	77.06	77.49	77.45	76.31	74.86	73.77	72.94	72.02	70.9	70.61	119.51
1300	77.99	78.31	78.58	78.2	76.64	75.5	74.9	73.79	72.38	71.21	70.69	120.02
1600	79.26	79.13	79.32	79.38	78	76.51	75.28	74.04	72.62	71.32	71.18	120.54
2000	79.71	79.86	80.41	80.51	78.89	77.14	75.72	74.41	73.07	71.85	71.88	121.02
2500	79.17	79.37	79.48	79.3	78.04	76.52	75.26	74	72.72	71.5	71.3	120.59
3200	78.06	77.9	77.93	77.76	76.64	75.21	74.07	73.19	71.97	70.48	70.64	120.09
4000	77.17	78.35	78.17	76.13	74.86	73.29	72.13	71.45	70.3	68.73	69.19	119.44
5000	76.86	74.9	75.07	75.07	73.35	71.66	70.8	70.24	69.04	67.39	68.18	118.53
6300	74.7	73.75	73.85	73.78	71.99	70.31	69.48	68.98	67.77	66.07	67.39	117.53
8000	73.72	72.34	72.84	72.68	70.33	68.49	67.94	67.64	66.39	64.51	66.04	117.04
10000	69.69	68.84	69.77	70.25	68.02	65.6	64.47	64.32	63.11	60.71	62.06	114.65
OASPL	89.65	89.67	89.82	89.87	88.75	87.79	87.3	86.82	86.35	86.3	87.13	131.71

NASA Lewis Allison AST Jet Noise Test 1996

rdg	260
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
netrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	801.64
m01	0.30178
pamb	14.3682
tamb	492.166
rhumid	75.38
winds1	0
nprc	1.391
nprb	1.438
ptc	19.9834
ptb	20.6586
wactc	2.499
wactb	13.326
ttc	1168.35
ttb	508.759
ptmix	20.552
ttmix	614.392
mixpnd	0.659648
grwiep	12686
badchan	(26)
bkgnd	247
excdate	22.Nov.96
exctime	20:55:12
DADSdate	97.08.25
DADStime	20:55:12
btchdate	22.Nov.96
btchtime	20.55:12

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:12:39 1997

Data ambi	14.70 psia
Data ambi	537.0 R
Data ambi	70.00%
Data scale	1

distance: (1	1831.16	1732.05	1655.07	1596.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1596.27
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
64	39.87	48.11	47.94	47.09	47.78	47.53	47.94	48.8	49.97	47.96	48.72	46.47
80	40.77	46.71	48.05	47.14	48.34	48.01	49.31	50.9	49.16	47.67	48.91	48.17
100	45.29	46.93	47.32	46.12	47.88	49.04	48.58	48.55	48.09	48.6	49.25	50.58
130	42.29	45.69	47.2	47.78	48.49	49.05	50.33	50.8	50.55	50.79	50.31	50.71
160	45.08	47.89	49.2	48.99	51.41	52.24	53.08	50.44	51.3	50.85	50.75	51.6
200	47.38	50.17	52.78	53.72	54.33	54.04	52.97	52.81	53.75	54.83	54.91	55.19
250	46.34	49.49	51.24	50.58	52.34	51.86	54.01	53.34	53.2	52.61	52.28	52.95
320	46.19	50.87	52.79	53.3	53.31	53.5	53.58	54.99	54.85	54.48	55.08	54.78
400	45.04	49.81	51.84	52.45	52.82	53.71	53.7	53.72	54.65	54.82	55.19	55.11
500	45.65	51.02	53.03	53.26	53.68	54.21	54.28	53.72	53.97	54.31	54.58	54.73
630	46.29	52.27	53.63	52.99	53.98	53.84	54.17	54.49	54.55	55.08	54.3	54.71
800	46.41	51.47	52.73	52.82	53.55	53.6	53.87	54.61	54.65	54.81	54.74	54.14
1000	45.7	51.11	52.02	52.88	53.54	53.32	53.01	54.06	54.3	54.6	54.85	54.58
1300	44.81	50.46	51.82	52.11	52.83	53.43	52.93	53.66	54.33	54.38	54.39	54.65
1600	43.48	48.92	50.77	51.04	52.04	52.04	51.78	53.22	53.34	53.45	53.94	54.08
2000	41.7	47.14	49.01	49.8	50.58	51	50.8	52.27	52.39	52.14	52.52	52.31
2500	38.34	43.63	46.03	47.49	47.91	48.44	48.54	50.83	50.84	50.85	50.74	50.41
3200	33.19	39.65	41.64	43.33	43.45	44.58	44.99	48.09	48.42	48.35	48.23	47.62
4000	25.55	32.49	34.86	36.35	36.21	37.73	38.18	44.21	44.28	43.88	43.65	42.64
5000	0	19.85	24.08	26.46	27.01	28.67	29.83	37.99	38.44	38.15	37.44	36.75
6300	0	0	0	0	0	-2.25	0	29.66	30.1	29.29	28.59	27.06
8000	0	0	0	0	0	0	0	0	0	0	0	0
10000	0	0	0	0	0	0	0	0	0	0	0	0
OASPL	57.1	61.72	63.38	63.58	64.37	64.59	64.78	65.24	65.49	65.51	65.61	65.67
PNL	66.5	71.79	73.61	73.99	74.84	75.07	75.07	75.49	75.67	75.57	75.73	75.61

distance: (1	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
64	49.39	48.35	47.34	46.8	46.8	49.68	45.9	45.73	45.15	44.1	48.14	112.58
80	47.25	48.56	49.12	48.08	47.01	49.19	50.74	49.84	48.4	47.26	45.47	113.8
100	50.11	49.69	51.25	50.64	48.9	49.25	49.07	48.16	47.04	46.27	46.08	113.88
130	50.65	50.46	49.78	49.99	47.8	46.75	49	48.27	47.23	48.08	44.14	113.99
160	51.62	53.09	52.8	53.74	52.73	53.06	47.8	46.67	45.34	44.23	43.55	115.7
200	55.95	56.04	56.02	55.26	53.86	51.93	51.69	49.7	48.23	46.06	42.82	118.19
250	53.69	53.69	53.22	52.4	51.48	50.33	50.46	47.95	45.53	43.15	39.87	116.31
320	54.89	54.26	54.26	54.01	52.38	50.8	49.13	46.65	43.73	40.58	37.91	117.35
400	54.57	54.27	53.84	52.18	49.93	47.81	48.29	45.85	42.87	38.98	35.02	116.82
500	54.3	53.79	53.27	52.21	49.87	47.84	46.14	44.44	41.58	37.11	32.48	116.72
630	54.02	53.9	53.85	52.78	50.4	47.58	45.72	43.55	40.36	36.12	31.34	116.95
800	53.74	53.3	52.88	52.02	49.52	47.32	45.2	42.53	39.33	34.95	30.04	116.55
1000	54.46	54.07	53.61	52.76	50.57	47.72	45.3	42.4	38.54	33.94	28.35	116.64
1300	54.8	54.41	54.19	53.37	50.68	47.65	44.94	41.64	37.52	32.68	26.96	116.59
1600	53.9	53.51	52.89	51.61	49.04	45.87	44.42	40.9	36.64	31.29	25.14	115.58
2000	51.87	50.99	50.2	48.98	46.34	43.22	42.65	39.06	34.53	28.77	21.8	113.88
2500	49.31	47.91	46.61	45.25	42.49	39.13	39.92	36.23	31.35	24.78	12.28	111.54
3200	46.18	44.16	42.9	41.47	37.97	33.93	35.56	31.59	28.33	15.96	0	106.3
4000	40.89	38.85	37.62	35.64	31.71	27.3	30.17	25.81	16.82	0	0	103.19
5000	34.29	31.8	30.02	27.84	21.61	5.01	22.01	4.32	0	0	0	98.59
6300	22.58	17.34	11.85	-2.47	0	0	0	0	0	0	0	86.9
8000	0	0	0	0	0	0	0	0	0	0	0	85.35
10000	0	0	0	0	0	0	0	0	0	0	0	85.35
OASPL	65.56	65.33	65.02	64.29	62.44	61.17	60.1	58.33	56.43	54.59	53.68	128.18
PNL	75.16	74.62	74.03	72.93	70.48	67.83	65.3	62.11	58.25	54.1	49.11	73.75

NASA Lewis Allison AST Jet Noise Test 1996

rdg 261
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engr Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
amixc 35.02
amixb 78.39
scale 4
vid 913.53
m01 0.30111
pamb 14.3685
tamb 491.67
rhumid 71.44
winds1 0
nprc 1.537
nprb 1.611
ptc 22.0813
ptb 23.1444
wactc 2.7
wactb 15.904
ttc 1330.17
ttb 507.505
ptmix 22.9901
ttmix 828.898
mixpnd 0.744184
grsvixp 16895.3
badchan (26)
bkgnd 247
escdate 22.Nov.96
esctime 21:01:56
DADSdate 97.08.25
DADStime 21:01:56
bkchdate 22.Nov.96
bkchtime 21:01:56
**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL
Processing date: Wed Aug 27 10:15:49 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (f	150	150	150	150	150	150	150	150	150	150	150	150
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105	110
80	71.26	72.76	72.48	71.75	71.38	70.52	70.65	72.48	73.05	72.73	73.78	72.56
100	69.62	72.49	73.09	73.69	73.49	72.58	71.82	72.75	73.27	73.94	73.81	74.18
130	71.24	73.63	73.19	72.48	72.19	72.16	72.1	72.38	72.79	72.18	72.07	73.84
160	70.92	73.55	72.64	72.58	74.39	74.16	74.77	74.55	74.62	74.84	75.37	76
200	71.94	74.69	74.76	75.38	74.96	74.86	75.97	75.64	75.05	75.71	75.8	75.56
250	73.03	75.28	76.01	76.63	77.19	76.67	76.27	77.01	77.79	77.72	77.32	78.37
320	75.49	76.97	76.57	77.77	76.36	76.45	76.52	77.06	78.43	78.71	78.46	78.6
400	73.65	76.88	76.98	77.38	78.07	78.38	79.13	78.89	78.69	78.44	78.74	79.71
500	75.2	78.25	79.03	78.06	78.29	78.71	78.58	78.49	78.3	78.66	79.07	80.11
630	75.45	79.05	79.38	78.49	78.45	79.13	79.21	79.41	79.49	79.93	79.51	80.54
800	76.87	81.26	80.58	79.7	79.94	79.88	80.18	80.47	80.5	80.61	80.62	81.69
1000	78.21	82.34	81.57	81.43	80.71	81.04	81.37	81.67	81.73	81.56	81.81	82.07
1300	78.65	83.32	81.36	82.32	81.82	82.49	82.64	82.43	82.38	82.36	82.87	83.53
1600	79.02	83.47	82.26	82.26	82.11	82.71	82.6	83.18	83.58	82.95	83.22	84.41
2000	78.81	83.19	82.5	82.61	82.25	83.02	83.22	83.52	84.02	83.55	83.98	85.74
2500	77.69	81.84	81.85	82.45	82.19	82.45	83.2	83.45	83.34	83.18	84.35	85.9
3200	76.88	80.38	81.09	81.27	82.08	82.39	83.42	83.27	83.11	82.7	83.64	84.98
4000	75.95	79.19	79.8	80.1	81.01	81.55	82.57	82.48	82.07	81.68	82.98	83.82
5000	74.66	78.74	78.34	79.15	79.4	80.25	81.44	81.65	80.86	79.91	80.87	82.16
6300	74.09	77.4	78.21	78.09	78.29	78.74	80.52	80.62	79.99	78.96	79.42	80.26
8000	73.02	76.57	76.95	77.71	77.15	77.79	79.79	78.75	79.11	77.45	78.07	78.79
10000	71.85	74.42	73.63	75.51	75.21	76.03	76.96	77.07	76	73.35	74.39	73.86
OASPL	88.99	92.75	92.45	92.58	92.55	92.97	93.54	93.69	93.65	93.33	93.85	94.93

distance: (f	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	
frequency	115	120	125	130	135	140	145	150	155	160	165	PWL
80	72.88	74.61	75.66	76.1	77.47	78.96	80.24	81.56	83.09	84.88	86.86	119.3
100	74.04	75.74	77.32	77.67	78.23	79.31	80.72	82.17	83.54	85.04	87.5	120.01
130	75.21	76.05	77.19	78.55	79.06	79.82	81.08	82.39	83.73	85.29	87.5	120.15
160	77.38	77.09	77.37	79.04	80	80.71	81.57	82.6	83.7	84.82	85.68	120.75
200	76.68	77.25	78.28	79.4	79.38	79.95	81.31	82.49	83.21	83.58	83.6	120.73
250	79.42	80.02	81.31	81.83	81.45	82.02	82.98	82.85	82.56	82.83	82.5	122.31
320	79.36	80.83	81.52	81.15	81.06	81.46	81.81	81.75	81.6	81.34	80.34	122.16
400	80.14	80.39	80.68	80.8	80.75	80.96	80.62	79.81	79.06	79.32	78.81	122.12
500	80.18	80.54	81.05	81.03	80.27	79.7	79.45	79.17	78.81	77.68	76.99	122.16
630	81.08	81.26	81.41	81.16	80.06	79.23	78.73	77.94	77.25	76.92	76.25	122.55
800	81.95	81.92	82.03	81.71	80.42	79.25	78.42	77.7	77.09	76.54	75.74	123.42
1000	82.87	83.26	83.1	82.13	80.23	78.97	78.35	77.6	76.72	76.02	75.82	124.32
1300	84.1	84.49	84.26	82.96	80.8	79.37	78.68	77.83	77.07	76.6	76.22	125.27
1600	85.43	85.9	85.63	84.27	81.6	79.94	78.96	78.27	77.51	76.67	76.32	126.03
2000	86.32	87.19	87	85.28	83.22	81.22	79.73	79.09	78.45	77.45	77.21	126.8
2500	86.72	87.26	87.22	86.06	83.89	82.01	80.75	79.86	78.87	77.86	77.63	126.85
3200	85.52	86.16	86.14	85.03	83.41	81.57	80.09	79.29	78.47	77.41	77.29	126.13
4000	84.21	84.35	84.17	83.11	81.22	79.7	78.81	78.12	77.01	75.65	75.97	124.82
5000	82.21	81.95	81.72	80.77	78.81	77.32	76.53	75.72	74.61	73.4	73.82	123.14
6300	80.38	80.17	79.36	77.97	76.58	75.39	74.34	73.33	72.31	71.54	72.21	121.63
8000	78.8	78.47	77.83	76.2	74.61	73.6	73	72.14	71.08	70.2	70.65	120.42
10000	74.75	74.97	73.97	72.79	72.01	70.62	69.13	68.39	67.64	66.42	66.13	117.34
OASPL	95.5	95.94	95.95	95.16	93.68	93.17	93.1	93.16	93.38	93.9	94.69	136.8

NASA Lewis Allison AST Jet Noise Test 1996

rdg	261
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
nasabld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	913.53
m01	0.30111
pamb	14.3665
tamb	491.67
rhumid	71.44
winds1	0
nprc	1.537
nprb	1.611
ptc	22.0813
ptb	23.1444
wactc	2.7
wactb	15.904
ttc	1330.17
ttb	507.505
ptmix	22.9901
tmix	626.896
mixpnd	0.744184
gravbp	16995.3
badchan	(26)
bkgnd	247
escdate	22.Nov.96
esctime	21:01:56
DADSdate	97.08.25
DADStime	21:01:56
bkchdate	22.Nov.96
bkchtime	21:01:56

**Scenario: Fly-over, full-scale, 1500' sideline, standard day

Processing date: Wed Aug 27 10:15:58 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.58	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	48.56	50.55	50.56	54.04	52.54	51.36	50.2	52.42	54.34	53.55	54.04	54	55.25	54.71	54.48	53.92	53.78	55.92	55.51	55.18	54.23	53.34	56.08	119.41
80	46.27	51.5	52.13	50.58	51.89	51.83	52.58	52.88	51.85	51.52	52.38	51.01	50.87	53.87	54.38	55.3	54.77	56.16	56.28	55.9	55.25	54.46	54.08	119.3
100	50.52	51.09	51.12	52.43	52.74	53.84	53.62	52.24	52.43	52.47	51.08	55.13	55.65	54.7	55.83	56.21	55.91	56.89	56.23	56.19	55.95	56.57	56.24	120.24
130	49.15	51.84	52.89	52.06	54.04	54.15	56.09	54.37	53.61	55.21	55.24	55.73	55.8	55.79	55.81	56.81	56.32	55.46	56.61	56.33	55.57	54.47	52.56	120.39
160	49.53	53.23	52.65	54.6	55.4	55.7	56.25	55.36	56.18	55.27	54.54	55.88	56.19	57.15	57.9	58.84	57.28	58.06	56.28	56.04	54.99	53.25	51.38	121.04
200	51.65	54.28	56.83	57.34	56.96	56.46	55.99	56.58	58.27	59.03	58.56	59.23	59.24	58.99	60.2	58.86	58.18	57.15	57.86	56.21	54.87	52.9	49.5	122.45
250	52.27	54.7	54.07	55.25	55.58	57.14	57.87	58.45	57.18	56.98	58.07	56.98	57.83	58.14	58.06	57.56	56.74	56.17	56.44	54.84	53.09	50.47	48.68	121.08
320	50.49	54.78	56.25	55.83	56.47	56.87	57.22	57.97	58.06	57.73	57.9	57.96	58.43	58.28	58.21	57.69	56.05	54.61	54.79	52.27	50.02	47.86	44.44	121.05
400	51.38	54.89	55.78	55.74	56.28	57.24	57.33	57.23	57.13	57.37	57.8	58.64	58.85	58.11	57.73	56.72	55.14	53.23	52.98	51.27	48.8	45.42	41.43	120.63
500	51.13	56.05	56.48	56.51	57	57.32	57.93	57.74	57.87	58.42	58.02	58.65	58.34	58	57.83	56.96	54.72	52.6	51.55	49.29	46.64	43.58	39.12	120.79
630	52.48	57.89	57.89	57.35	57.92	58.28	58.78	58.38	58.21	58.11	58.08	58.87	58.96	59.5	58.57	57.01	54.14	51.6	50.63	48.21	45.42	42.01	37	121.39
800	52.46	57.54	57.04	58.05	57.64	58.45	58.27	58.12	58.28	58.83	59.1	59.09	59.03	59.34	58.81	56.94	54.01	51.37	49.75	47.2	44	40.16	35.47	121.51
1000	52.37	57.86	56.93	57.81	57.81	58.91	58.92	59.37	59.38	59.24	59.69	60.5	60.78	60.79	58.85	57.83	54.31	51.17	49.14	46.44	43.18	39.28	33.76	122.07
1300	51.93	57.16	56.96	57.19	57.43	58.61	58.81	59.58	60.02	59.33	59.23	60.58	61.18	61.38	60.49	58.03	54.93	51.61	48.63	45.88	42.55	37.93	32.02	122.2
1600	50.25	56.42	55.42	56.48	56.51	56.98	57.8	59.24	59.69	59.17	58.58	60.83	61.06	61.25	60.38	58.04	54.54	51.23	48.38	45.55	42.03	36.99	30.55	121.83
2000	47.37	52.15	53.33	54.04	54.93	55.51	56.7	58.18	57.93	57.64	58.49	59.53	59.71	59.52	58.44	56.13	53.1	49.47	48.19	44.71	40.48	35.19	28.13	120.25
2500	43.75	47.89	49.38	50.48	51.75	52.47	53.61	56.53	56.31	55.59	56.2	56.89	56.86	56.12	54.92	52.44	48.98	45.48	45.84	42.32	37.9	31.72	23.71	117.4
3200	38.3	43.1	44.88	45.84	46.8	47.84	49.18	53.51	53	52.27	53.13	53.2	52.59	51.38	49.73	47.31	43.78	39.98	42.12	38.29	33.03	25.67	7.92	113.41
4000	30.45	38.22	38.1	38.5	39.63	40.76	42.59	49.28	48.31	47.02	47.3	47.74	46.89	45.49	43.53	40.28	36.49	32.42	36.12	31.51	25.13	10.03	0	107.78
5000	18.47	24.63	27.43	29.25	30.12	31.19	33.85	42.92	42.28	40.85	40.89	40.71	38.63	37.98	35.4	31.7	26.88	21.13	27.74	20.87	0	0	0	100.71
6300	0	0	0	0	0	8.6	16.21	33.95	33.2	30.87	30.7	30.2	28.81	26.15	21.93	12.94	0	0	4.84	0	0	0	0	90.34
8000	0	0	0	0	0	0	0	18.02	12.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89.88
10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.95
OASPL	62.94	67.18	67.36	67.96	68.25	68.65	69.3	69.71	69.89	69.78	69.86	70.67	70.92	70.96	70.53	69.39	67.59	66.75	66.37	65.28	64.04	62.61	61.8	133.29
PNL	72.86	77.63	77.89	78.73	79.03	79.64	80.34	80.75	80.67	80.34	80.78	81.64	81.78	81.59	80.74	78.85	76.18	73.53	71.17	68.44	65.48	62.3	57.97	79.44

NASA Lewis Allison AST Jet Noise Test 1996

rdg	262
run	1
test_prog	Allison96
test_num	3
test_facil	LeRC APL
test_cust	Allison
lead_aero	Kathy Boyd
lead_acou	Kathy Boyd
lead_engir	Ray Castner
natrbld	NATR full wedge
rigbld	JER w/ external supplement
mixbld	DP20
nozbld	SH50
anoz	41.226
amixc	35.02
amixb	78.39
scale	4
vid	964.07
m01	0.30158
pamb	14.3617
tamb	491.64
rhumid	78.22
winds1	0
nprc	1.735
nprb	1.82
ptc	24.9175
ptb	26.1383
wactc	3.056
wactb	18.336
ttc	1418.23
ttb	508.326
ptmix	25.9638
ttmix	638.312
mixpnd	0.778301
grsvlxp	20823.4
badchan	{26}
bkgnd	247
escdate	22.Nov.96
esctime	21:07:17
DADSdate	22.Nov.96
DADStime	21:07:17
blchdate	22.Nov.96
blchtime	21:07:17

**Scenario: 150 foot arc; 77F, 70%; Full scale; Third-octave SPL

Processing date: Wed Aug 20 01:35:13 1997

Data ambi 14.30 psia
Data ambi 536.0 R
Data ambi 70.00%
Data scale 1

distance: (	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
yaw angle	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	PWL
80	73.2	74.76	75.72	76.29	76.62	76.82	76.95	77.07	77.22	77.41	77.68	78.04	78.51	79.11	79.85	80.74	81.77	82.96	84.33	85.92	87.78	90.08	93.22	124.08
100	74.99	76.34	77.25	77.81	78.08	78.08	77.93	77.73	77.59	77.57	77.71	78.04	78.58	79.33	80.29	81.44	82.78	84.32	86.07	88.08	90.23	92.68	95.62	125.75
130	75.66	77.8	78.06	77.78	77.58	77.65	77.81	77.63	77.14	76.87	77.13	77.99	79.26	80.64	81.85	82.84	83.83	84.94	86.28	87.92	89.79	91.93	94.47	125.64
160	75.28	77.65	78.28	78.3	78.31	78.44	78.62	78.83	79.12	79.48	79.88	80.34	80.94	81.72	82.69	83.84	85.13	86.53	88.02	89.54	91.02	92.45	93.82	126.69
200	77.05	78.88	79.38	79.81	79.73	78.84	79.98	80.17	80.39	80.65	80.96	81.13	80.96	81.62	82.87	84.18	85.18	85.99	86.81	87.73	88.68	89.65	90.57	125.95
250	77.35	79.25	79.59	78.47	79.53	79.99	80.57	80.93	81.05	81.14	81.38	81.84	82.62	83.72	85.06	86.03	86.41	87.21	88.25	89.03	89.53	89.91	90.32	126.94
320	78.83	80.25	80.78	80.94	80.88	80.7	80.56	80.57	80.78	81.19	81.63	82.56	83.03	83.53	84.34	85.39	86.35	87.06	87.47	87.8	87.55	87.48	87.38	126.47
400	78.05	79.64	80.41	80.82	81.09	81.35	81.59	81.77	81.88	82.2	82.91	83.52	84.01	84.53	85.18	85.79	86.12	86.36	86.45	86.28	85.88	85.41	85.19	126.46
500	79.77	81.87	82.13	81.76	81.53	81.89	81.8	81.98	82.19	82.51	82.91	83.38	83.93	84.66	85.1	85.11	85.04	85.04	85.07	85	84.61	83.89	83.26	126.24
630	79.73	82.43	82.97	82.81	82.7	82.76	82.89	83.18	83.53	83.8	84.05	84.32	84.86	84.94	85.17	85.16	84.75	84.47	84.24	83.7	83.02	82.48	82.09	126.85
800	81.08	84.07	84.53	84.37	84.23	84.31	84.33	84.55	84.69	84.65	84.79	85.11	85.65	85.72	85.56	85.23	84.83	84.33	83.64	82.77	81.93	81.36	81.18	127.44
1000	83.02	86.13	85.91	85.09	84.57	84.98	85.74	86.35	86.36	86.23	86.54	86.84	87.17	87.23	86.72	85.72	84.62	83.78	83.14	82.5	81.81	81.14	80.8	128.8
1300	84.21	87.01	87.05	86.72	86.31	86.2	86.41	86.66	86.59	86.67	87.38	88.4	89.15	89.2	88.45	87.09	85.54	84.3	83.35	82.54	81.79	81.18	81.04	129.74
1600	85.29	88.3	88.3	87.86	87.5	87.38	87.56	87.8	88.09	88.48	89.07	90	90.86	90.94	90.08	88.58	86.89	85.35	84.06	83.05	82.22	81.59	81.49	131.18
2000	85.95	88.78	88.81	88.51	88.27	88.33	88.74	88.93	89.07	89.56	90.57	91.63	92.46	92.84	92.28	90.88	88.8	86.67	85.03	83.71	82.71	82.13	82.21	132.5
2500	86.16	88.83	89.21	89.14	88.75	88.88	89.14	89.85	90.3	90.69	91.87	93.22	94.11	94.65	94.25	92.81	90.17	88	86.31	85.03	84.02	83.29	83.24	133.78
3200	86.63	89.3	89.51	89.4	89.25	89.57	90.15	90.66	91.15	91.74	92.63	93.83	94.81	95.3	94.88	93.41	91.26	89.09	87.26	85.89	84.89	84.27	84.34	134.51
4000	86.53	89.25	89.6	89.24	88.87	89.27	90.2	90.44	91	91.73	92.88	93.94	94.5	94.42	93.86	92.73	90.78	88.91	87.4	86.19	85.21	84.5	84.5	134.21
5000	85.93	89.22	89.42	88.71	87.89	88.48	89.59	89.88	90.1	90.79	92.08	92.94	93.29	93.24	92.79	91.65	89.87	87.94	86.59	85.4	84.36	83.65	83.79	133.32
6300	89.28	88.78	89.07	88.27	87.53	87.9	88.93	89.31	89.58	90.08	90.75	91.61	92.07	91.95	91.33	90.15	88.26	86.52	85.2	84.22	83.4	82.84	83.14	132.38
8000	85.14	88.43	88.79	88.2	87.35	87.78	88.8	88.77	88.88	89.22	89.83	90.48	90.68	90.6	89.87	88.56	86.59	84.93	83.79	82.97	82.24	81.69	82	131.45
10000	83.23	86.33	86.1	85.98	85.86	86.16	86.32	86.37	86.15	86.02	86.45	86.28	86.59	86.89	86.5	85.27	83.49	81.86	80.22	79.46	78.78	77.94	77.91	128.99
OASPL	98.37	99.37	99.59	99.23	98.88	99.07	99.66	99.98	100.22	100.85	101.49	102.4	103.04	103.27	102.88	101.84	100.47	99.56	99.21	99.29	99.73	100.61	102.18	143.68

NASA Lewis Allison AST Jet Noise Test 1996

rdg 262
run 1
test_prog Allison96
test_num 3
test_facil LeRC APL
test_cust Allison
lead_aero Kathy Boyd
lead_acou Kathy Boyd
lead_engir Ray Castner
natrbld NATR full wedge
rigbld JER w/ external supplement
mixbld DP20
nozbld SH50
anoz 41.226
amixc 35.02
ambxb 78.39
scale 4
vid 964.07
m01 0.30159
pamb 14.3617
tamb 491.64
rhumid 76.22
winds1 0
nprc 1.736
nprb 1.82
ptc 24.9175
ptb 26.1383
wactc 3.058
wactb 18.336
ttc 1418.23
ttb 508.326
ptmix 25.9639
ttmix 636.312
mixpnd 0.778301
grsvtsp 20823.4
badchan (26)
bkgnd 247
eecdate 22.Nov.96
eectime 21:07:17
DADSdate 22 Nov.96
DADStime 21:07:17
btchdate 22.Nov.96
btchtime 21:07:17
**Scenario: Fly-over, full-scale. 1500' sideline, standard day
Processing date: Wed Aug 20 01:35:22 1997

Data ambi 14.70 psia
Data ambi 537.0 R
Data ambi 70.00%
Data scale 1

distance: (	1831.16	1732.05	1655.07	1598.27	1552.91	1523.14	1505.73	1500	1505.73	1523.14	1552.91
yaw angle	55	60	65	70	75	80	85	90	95	100	105
roll angle (	0	0	0	0	0	0	0	0	0	0	0
frequency	55	60	65	70	75	80	85	90	95	100	105
64	52.08	53.96	55.11	58.06	57.31	56.82	56.36	57.03	58.11	57.13	56.61
80	51.59	55.84	56.34	55.48	57.48	57.16	58.19	57.66	56.04	55.15	57.35
100	54.66	56.36	56.19	56.66	56.2	57.67	56.92	57.51	56.73	56.58	55.96
130	53.35	55.91	57.72	58.14	59.04	59.89	59.18	58.65	58.28	59.6	59.37
160	54.77	57.11	57.56	58.12	58.63	59.37	60.57	59.89	60.24	59.81	59.95
200	56.15	58.09	59.38	60.04	60.39	60.53	60.15	60.5	61.19	61.71	62.17
250	56.09	58.07	58.46	58.51	59.39	59.95	60.48	59.96	59.7	59.83	60.28
320	54.71	57.83	59.17	59.94	59.91	60.37	60.43	60.86	61.29	61.3	61.45
400	55.73	58.48	59.51	59.69	60.06	60.73	61.15	60.7	61.19	61.49	61.84
500	55.76	59.12	59.97	60.38	60.85	61.55	62.04	61.52	62.01	62.16	62.21
630	56.33	60.68	61.7	61.54	61.48	62.17	63.09	62.45	62.5	62.52	62.61
800	57.59	61.29	61.81	62.05	62.13	62.47	63.14	63.79	63.84	63.54	63.88
1000	58.18	61.91	62.8	62.80	63.02	63.28	63.73	63.6	63.71	63.90	64.46
1300	58.09	62.09	62.75	62.91	63.09	63.53	64.2	64.2	64.5	64.81	65.49
1600	57.71	61.31	62.28	62.68	62.81	63.1	63.7	64.61	64.8	65.38	66.2
2000	55.98	59.83	60.87	61.51	61.78	62.41	63.29	64.54	65.11	65.53	66.61
2500	53.6	57.32	58.56	59.12	58.39	60.02	61.12	63.91	64.38	64.83	65.53
3200	48.97	53.18	54.57	54.97	55.02	55.98	57.24	61.51	61.97	62.4	63.13
4000	42.62	46.71	48.29	48.56	48.5	49.49	50.98	57.54	57.58	57.95	58.86
5000	31.03	36.54	38.85	39.53	39.85	41.05	42.73	51.54	51.74	51.99	52.11
6300	2.71	19.57	23.4	24.87	25.7	27.22	28.67	42.98	42.93	42.67	42.62
8000	0	0	0	0	0	0	0	28.61	27.99	26.85	25.72
10000	0	0	0	0	0	0	0	0	0	0	0
OASPL	68.2	71.51	72.4	72.76	73.01	73.48	74.02	74.58	74.83	75.08	75.82
PNL	79.72	83.27	84.27	84.87	84.87	85.45	86.2	86.82	87.16	87.49	88.12

distance: (	1598.27	1655.07	1732.05	1831.16	1958.11	2121.32	2333.59	2615.17	3000	3549.3	4385.71	5795.55	
yaw angle	110	115	120	125	130	135	140	145	150	155	160	165	
roll angle (	0	0	0	0	0	0	0	0	0	0	0	0	
frequency	110	115	120	125	130	135	140	145	150	155	160	165	PWL
64	58.44	58.62	57.83	57.32	57.29	57.55	60.85	59.6	59.5	58.88	58.5	63	123.93
80	56.99	56.27	58.61	58.97	59.35	59.14	61.31	61.52	61.79	62.04	62.28	62.41	125.2
100	58.52	58.74	59.01	60.85	61.14	61.23	62.77	61.44	61.71	61.98	62.18	62.13	125.8
130	60.16	60.22	60.69	60.71	62.07	61.83	61.16	63.07	63.27	62.9	62.13	60.69	126.32
160	60.38	60.14	61.64	62.18	63.22	62.91	63.41	61.79	61.28	60.37	59.16	58.16	125.95
200	62.08	62.72	63.03	63.44	63.34	63.35	62.74	63.17	62.39	61.73	59.94	57.37	126.91
250	61.09	61.47	61.87	62.16	62.5	62.34	61.62	62.09	60.68	58.87	58.49	53.4	125.51
320	61.62	61.9	62.21	62.34	61.82	60.8	59.9	60.61	58.94	56.84	54.08	50.96	125.18
400	62.03	62.53	62.3	62.08	61.34	60.17	58.75	58.48	57.09	54.83	51.64	47.58	124.87
500	62.22	61.94	61.73	61.01	60.28	59.12	57.83	57.21	55.04	52.35	49.15	45.04	124.72
630	63.08	63.32	63.07	62.09	60.5	58.66	56.58	55.87	53.29	50.27	46.9	42.43	125.35
800	64.13	64.59	64.32	62.89	60.74	58.38	56.14	54.81	52.11	49.07	45.28	40.31	126.05
1000	65.21	65.85	65.47	64.15	61.98	58.3	56.54	53.76	51.15	48.01	44.01	38.86	126.77
1300	66.25	66.8	66.62	65.32	63.01	60.11	56.97	53.71	50.66	47.14	42.79	37.14	127.5
1600	67.17	67.73	67.7	66.62	64.23	60.76	57.18	53.87	50.15	48.28	41.69	35.59	128.03
2000	67.53	67.98	67.95	66.77	64.22	60.64	56.81	53.63	50.08	45.9	40.72	33.84	128
2500	68.31	66.42	65.84	64.38	61.86	58.31	54.52	52.94	48.88	44.31	38.68	30.86	128.35
3200	63.58	63.39	62.3	60.58	58.07	54.3	50.27	50.6	46.27	41.15	34.48	25.13	123.25
4000	58.77	58.18	58.99	55.08	52.17	47.99	43.44	46.08	41.12	34.98	27.01	0.43	118.23
5000	52.18	51.48	49.9	47.45	43.98	39.28	34.02	38.59	32.98	25.48	0.42	0	111.48
6300	41.98	40.85	38.8	35.87	31.23	25.22	15.22	28.18	19.61	0	0	0	101.48
8000	22.93	20.1	16.64	6.84	0	0	0	0	0	0	0	0	84.68
10000	0	0	0	0	0	0	0	0	0	0	0	0	65.35
OASPL	76.22	76.55	76.48	75.68	74.45	72.97	72.27	71.85	71.08	70.27	69.33	69.15	138.84
PNL	88.8	89.09	88.92	87.86	85.86	83.08	80.35	77.75	74.84	72.45	69.54	66.18	86.26

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13. ABSTRACT ***(Maximum 200 words)***

A comprehensive database for the acoustic and aerodynamic characteristics of several model-scale lobe mixers of bypass ratio 5 to 6 has been created for mixed jet speeds up to 1080 ft/s at typical take-off (TO) conditions of small-to-medium turbofan engines. The flight effect was simulated for Mach numbers up to 0.3. The static thrust performance and plume data were also obtained at typical TO and cruise conditions. The tests were done at NASA Lewis anechoic dome and ASE's FluiDyne Laboratories. The effect of several lobe mixer and nozzle parameters, such as, lobe scalloping, lobe count, lobe penetration and nozzle length was examined in terms of flyover noise at constant altitude and also noise in the reference frame of the nozzle. This volume is divided into three parts: in the first two parts, we collate the plume survey data in graphical form (line, contour and surface plots) and analyze it; in part 3, we tabulate the aerodynamic data for the acoustics tests and the acoustic data in one-third octave band levels.

14. SUBJECT TERMS
Engine noise; Jet noise; Lobed mixers; Aeroacoustics; Internal noise; Excess noise; Nozzle length; Mixing length; Lobe scalloping; Thrust coefficient; Turbofan mixing; Jet plumes; Flight effect; Lobe count; Lobe penetration; Lobe scalloping

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